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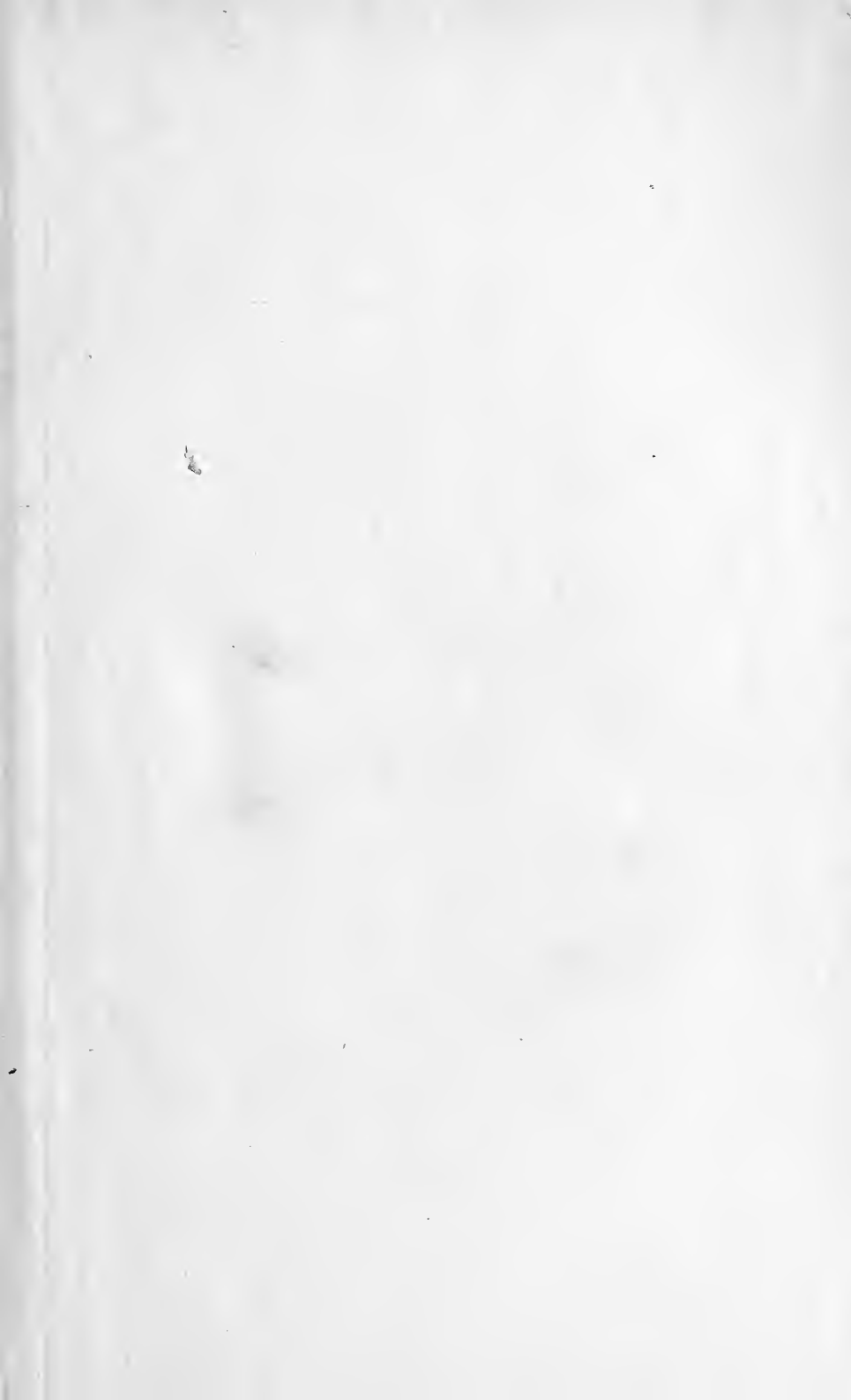
1897



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ANNUAL REPORT
OF THE
STREET DEPARTMENT
OF THE

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Benj. W. Wells,

Superintendent of Streets.



BOSTON:
MUNICIPAL PRINTING OFFICE.

1893.

ANNUAL REPORT
OF THE
STREET DEPARTMENT
OF THE
CITY OF BOSTON.

1897.

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1898.

STATISTICAL DEPARTMENT.

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NOTES TO

CONTENTS.

PART I.

REPORT OF THE SUPERINTENDENT OF STREETS.

	PAGE		PAGE
Applications to Civil Service Commissioners	38	Sanitary Division.....	33
Appropriations (Maintenance)	2	Sewer Division	33
Complaints	24	Street Cleaning Division.	34
Construction Work:		Street Watering Division.	34
Laying Out and Construction of Highways.....	4	Transfers	37
Blue Hill and other Avenues	4		
In General.....	5	BOSTON AND CAMBRIDGE	
Employment of Labor.....	34	BRIDGES:	
Expenditures:		Appropriations	30
Blue Hill and other Avenues.....	3	Craigie Bridge.....	27
New Ferry Landing.....	3	Classification of Expenses .	31
Laying Out and Construction of Highways.....	2	Draw Openings.....	32
Sewerage Works.....	3	Expenditures.....	30
Special Appropriations...	2	Harvard Bridge.....	28
Street Improvements.....	2	Prison Point Bridge.....	29
Stony Brook Improvement.....	3	Revenue.....	30
South Union Station.....	3	Statement of Traffic.....	31
Recapitulation.....	3	West Boston Bridge.....	29
Grade and Number of Employees.....	35	BRIDGE DIVISION:	
Organization	1	Appropriations Necessary..	21
Purchase of Supplies.....	23	New Bridges Necessary	21
Signs	27	Work to be Performed....	21
Smoke Nuisance.....	24		
Stables and Buildings.....	23	FERRY DIVISION:	
Summary of Work Performed:		Drops and Tanks.....	22
Bridge Division.....	32	Electric Lighting on Boats.	22
Ferry Division.....	33	Electric Motors.....	22
Paving Division.....	33	Head-house	22
		Work Performed	22
		PAVING DIVISION:	
		Appropriation Necessary for	
		Paving the Down Town	
		District	7
		Asphalt Pavement.....	8
		Maintenance Appropriation,	
		uses of.....	7

	PAGE		PAGE
Output of Stone from City		STREET CLEANING DIVISION:	
Crushers	6	Extension of Street Cleaning	
Reconstruction Work	6	Districts.....	20
Relations of the Department with Corporations		Pavements and Street Cleaning.....	20
Occupying the Streets ...	9	Snow	20
Repairing Macadam Streets,	7	Street Litter	21
Street Cleaning.....	9	Work Performed.....	20
Work Performed	9		
		STREET WATERING DIVISION:	
SANITARY DIVISION:		Difficulties met with.....	22
Combustible Waste Plant..	19	Electric Watering Car Service	23
Fort Hill Wharf	19	Street Watering Act.....	22
Garbage Plant.....	19	Subscription work.....	23
Maintenance Appropriation, uses of.....	19		
Material Collected.....	18	CENTRAL OFFICE:	
Steel Carts	19	Appropriation.....	39
		Areas of Pavements.....	84
SEWER DIVISION:		Contracts	49
Back Bay Fens, Pollution..	17	Expenditures.....	39
Canal Street System	14	Financial Statement, Street Department, Maintenance and Special Appropriations,	40
Cove Street Sewer.....	15	Financial Statement (seven years), Comparative	41
Muddy River Conduit.....	17	Income.....	85
Notre Dame Street Sewer..	17	Income Laying-out and Construction of Highways...	85
Pumping Station	18	Special Appropriations:	
Sewer work in		Blue Hill and other avenues,	45
Charlestown District	16	Bridge Division.....	42
Dorchester "	16	Ferry Division.....	42
East Boston "	16	Laying-out and Construction of Highways.....	44
South Boston "	17	Paving Division	42
West Roxbury "	16	Sewer Division	45
Sewers Built by Boston Transit Commission.....	15	Street Improvements.....	44
Sewers Built in the Vicinity of the South Union Station.	15	South Union Station.....	46
Sewerage Works Act, Advantages of.....	10	Recapitulation, Maintenance and Specials.....	46
Sewerage Works Act, Text,	11	Street Building:	
Stony Brook Improvement.....	13	Blue Hill and other avenues,	48
Surface Drainage	14	Laying-out and Construction of Highways.....	47
Use of Boston Sewers by the Metropolitan Sewerage Commission.	18	Street Mileage.....	83
West Roxbury Low Level Sewer.....	17	Street Mileage, Rate of Increase.....	84
Work Contemplated.....	15	Streets Paved with Asphalt,	78

PART II.

APPENDIX A.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE
BRIDGE DIVISION. (Page 3.)

	PAGE		PAGE
Bridges in Boston.....	3	Income.....	9
Bridges Closed to Travel...	4	In General.....	5
Bridges wholly Supported		Inland Bridges:	
by Boston.....	39	Expenditures.....	23
Bridges of which Boston		Recapitulation.....	31
Supports the part within		List of small Bridges and	
its Limits.....	41	Culverts.....	44
Bridges of which Boston		Longwood Avenue Bridge..	6
pays a part of the Cost of		Maintenance Expenditures	
Maintenance	41	(North and South Yards),	32
Bridges wholly Supported		Malden Bridge.....	3
by Railroad Corporations,	41	Mt. Washington Avenue	
Broadway Bridge.....	4	Bridge.....	3
Cable Houses and Boxes...	45	Public Landing Places....	45
Congress Street Bridge....	4	Recapitulation of Bridges..	43
Drawbridges operated by		Special Appropriations....	8
Electric Power.....	4	Special Appropriations (De-	
Drawbridges operated by		tails).....	33
Hand Power.....	4	Statement of Traffic.....	47
Drawbridges operated by		Tidewater Bridges:	
Steam Power.....	4	Expenditures.....	9
Drawtenders' Reports.....	48	Recapitulation.....	22
Drawtenders' Reports (five		Warren Bridge.....	4
years).....	53	Width of Openings.....	50
Expenditures.....	6	Width of Bridges, Road-	
Financial Statement.....	7	ways, etc.....	52

APPENDIX B.

REPORT OF THE DEPUTY SUPERINTENDENT OF
FERRY DIVISION. (Page 55.)

	PAGE		PAGE
Actual Standing.....	63	Ferry-boats.....	56
Cash Statement.....	61	Financial Statement.....	57
Electric Motors.....	56	Income.....	59
Expenditures (1870-1898)..	62	Location of Ferries.....	55

	PAGE		PAGE
Pleasure Carriage Tickets	66	Ticket Statement.....	65
Receipts	60	Travel on North and South Ferries.....	64
Receipts (1870-1898)	61	Total Travel.....	65
Team Tickets.....	65	Work Performed.....	56

APPENDIX C.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE PAVING DIVISION. (Page 67.)

	PAGE		PAGE
Appropriations (seven years)	67	Schedule B. (In excess of special appropriation),	71
Expenditures (Total)	69	Schedule C. (New Work),	75
Financial Statement (Maintenance).....	67	Special Appropriations (Details).....	76
Financial Statement (Maintenance and Specials)....	69	Special Appropriations (Summary)	168
Income.....	69	Street Improvements (Details).....	88
New Brick Sidewalks.....	193	Street Improvements (Summary).....	169
New Edgestones	190	Blue Hill Avenue.....	178
Objects of Expenditures (Maintenance)	68	Columbus Avenue	179
Permit Office	204	Commonwealth Avenue..	179
Property in charge of the Division	198	Huntington Avenue.....	180
Streets Laid Out and Extended.....	200	Summary of Blue Hill and other Avenues.....	180
Streets Widened and Relocated.....	203	Laying-out and construction of Highways (Details)	181
Streets Ordered Constructed,	202	Summary of Laying-out and Construction of Highways,	188
Street Numbering.....	205		
Schedules of Expenditures:			
Schedule A. (Miscellaneous),	70		

APPENDIX D.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE SANITARY DIVISION. (Page 207.)

	PAGE		PAGE
Ashes:		Cost of removing by Contract	219
Amount Collected	212	Disposal of.....	207
Comparative Statement (sixteen weeks, Winter and Summer).....	214	Force Employed.....	213
		Method of Collecting	224

CONTENTS.

vii

	PAGE		PAGE
Contract	223	Cost of Removing by Con-	
Division	225	tract	220
Dumping	220	Force Employed	212
Expenditures	207	Income from Sales (five	
Financial Statement	215	years)	225
Garbage Plant	207	Method of Collect-	
Hay and Grain	237	ing	224
Income	215	Organization	242
Maintenance (five years)	207	Property in Charge of the	
Materials:		Division	241
Collected by Districts	220	Shops:	
Cost of Collecting	222	Blacksmith Shop	231
Disposal of	221	Harness Shop	235
Loads Collected	222	Paint Shop	232
Sold by Contract	223	Wheelwright Shop	230
Final Disposition of	215	Cost of Horseshoe-	
Cost of Removing	218	ing	227
Separation of	208	Signs	233
Offal:		Work performed for other	
Amount Collected	211	Divisions	229

APPENDIX E.

REPORT OF THE DEPUTY SUPERINTENDENT OF SEWER DIVISION. (Page 243.)

	PAGE		PAGE
Appropriations (Main-		Summary of Sewer Con-	
tenance, ten years)	244	struction (1897)	294
Financial Statement	253	Summary of Sewer Con-	
House Connections	250	struction (five years)	299
Legal Grade of Cellars	249	Sewers Built to Date	295
Main Drainage	251	Sludge Removed	298
Property in charge of the		Use of Sewers by the Metro-	
Division	298	politan Sewerage Com-	
Pumping Report	297	missioners	251
Rainfall	296	Work done for and paid by	
Sewers Built by Contract or		Paving Division	293
Day Labor:		Work in charge of Divi-	
South Boston	257	sion	243
East Boston	258	Work Performed and Neces-	
Charlestown	260	sary to be Performed:	
Brighton	261	South Boston	244
West Roxbury	267	East Boston	244
Dorchester	270	Charlestown	244
Roxbury	282	Brighton	245
City Proper	289	West Roxbury	245
Recapitulation	293	Dorchester	246
Details of Cost of Con-		Roxbury	246
struction over \$2,000	299	City Proper	248

APPENDIX F.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE
STREET CLEANING DIVISION. (Page 339.)

	PAGE		PAGE
Amount of Material Re-		Cleaning Streets.....	342
moved	348	Cost of Dumps.....	343
Character of the City Pav-		Miscellaneous Work	344
ments.....	339	Patrol System	344
Cost of Street Cleaning		Removing Snow.....	343
(seven years).....	339	Recapitulation of Expend-	
Dumping Facilities.....	340	itures.....	345
Financial Statement.....	342	Stable and Yard Expenses	346
Force Employed.....	348	Stock Account.....	346
General Recapitulation of		Superintendence.....	342
Expenditures.....	346	Removal of Snow from Side-	
Income.....	347	walks	341
Objects of Expenditures:		Street Sweeping Methods...	340
Cleaning Crossings.....	344	Violations of the City Or-	
Cleaning Gutters.....	343	dinances.....	341

APPENDIX G.

REPORT OF THE DEPUTY SUPERINTENDENT OF
THE STREET WATERING DIVISION. (Page 349.)

	PAGE		PAGE
Character of the Weather		Street Watering in Boston	
during 1897.....	349	as Compared with Other	
Distribution of Carts.....	354	Large Cities.....	349
Expenditures (seven years).	350	Subscription Work	353
Financial Statement	352	Summary of Day Work....	352
Income.....	352	Work done by Contractors	
Objects of Expendi-		Free of Cost to City	354
tures.....	351	Water Posts	355

APPENDIX H.

REPORT OF THE CITY ENGINEER ON SPECIAL
WORK. (Page 356.)

	PAGE		PAGE
Asphalt Streets under Guar-		Columbus Avenue	356
anty February 1, 1898....	358	Columbia Road.....	356
Asphalt Patching (cost of),	363	Commonwealth Avenue....	356
Blue Hill Avenue.....	356	East Boston Ferries.....	380

CONTENTS.

ix

	PAGE		PAGE
Fort Hill	380	Miscellaneous Work	379
Grading		New Construction	371
Tracks	374	Street Lines and Grades	
Harvard Street Bridge	380	given	376
Hyde Park Avenue Bridge,		Work Performed (Details)	365
over Stony Brook	380	Work Performed (in Gen-	
Ipswich Street	380	eral)	356

APPENDIX I.

REPORT OF THE CHIEF SMOKE INSPECTOR. (Page 382.)

	PAGE		PAGE
Boiler Applications	385	Smoke Nuisance	382
Boiler Permits	383	Summary	386
Coal Importations	384	Weather Report	386
Observations and Reports	385		

APPENDIX J.

FORMER SUPERINTENDENTS AND DOCUMENT NUM- BERS OF ANNUAL REPORTS. (Page 388.)

LIST OF ILLUSTRATIONS.

PART I.

Blue Hill Avenue Boulevard	10
Ferry-boat "Governor Russell," showing Construction	22
Improved Street Sign	26
Kneeland Street Sewer, showing Depressed Section	14
Radial Avenues	4
State Street, New Paving	8
Washington Street, Old and New Paving	6

PART II.

Boston Street (Columbia Road) at Edward Everett Square	66
Columbia Road, near Blue Hill Avenue (under Construction)....	182
Covington Street, artificial Stone Steps, Platforms, etc.	128
Dorchester Intercepting Sewer, showing Siphon under Tenean Creek Conduit	246
Kneeland Street Sewer, Sheet Piling	248
State Street Paving	84

PART I.

REPORT OF THE SUPERINTENDENT OF STREETS.

PAGES 1 TO 86.



HON. JOSIAH QUINCY,

Mayor of the City of Boston :

SIR: In compliance with the Revised Ordinances, the annual report of the operations and expenses of the Street Department for the year 1897 is herewith respectfully submitted.

ORGANIZATION.

The work of the Department during the past year has been carried on under the same organization that was effected when the consolidated department was created in 1891 and as amended in 1895, the several divisions of the department being as follows :

Central Office.	Paving Division.
Boston and Cambridge	Sanitary Division.
Bridges.	Sewer Division.
Bridge Division.	Street-Cleaning Division.
Ferry Division.	Street-Watering Division.

Each of the above divisions, with the exception of the Central Office and the Boston and Cambridge Bridges, is in charge of a Deputy Superintendent.

The Boston and Cambridge Bridges are managed by two commissioners, the Superintendent of Streets being the commissioner for the city of Boston, the other commissioner being appointed by the Mayor of the city of Cambridge.

More extensive study than is given under this résumé of the year's work, with detail of figures and expenditure, will be found in the division reports of the Deputy Superintendents.

APPROPRIATIONS.

The money assigned for Street Department work the past year was made available under the following appropriations:

First. — Maintenance: At the commencement of the financial year, February 1, the department estimates of the amounts necessary for the proper maintenance of the various divisions are submitted to His Honor the Mayor, who makes such recommendation as he may deem proper to the City Council. The appropriations passed for this purpose were as follows:

Central Office	\$20,000 00
Bridge Division	125,000 00
Cambridge and Boston Bridges	14,000 00
Ferry Division	220,000 00
Paving Division	660,000 00
Sanitary Division	460,000 00
Sewer Division	300,000 00
Street-Cleaning Division	310,000 00
Street-Watering Division	70,0 0 00
Total	\$2,179,000 00

Second. — Special work done under loan appropriations for permanent improvements: There was made available from loan money, \$25,000 for new or reconstruction work in each of the twenty-five wards, or a total of \$625,000 for all.

In addition to the above amount, balances and orders passed during the year for special items amounted as follows:

Bridge Division	\$72,525 14
Ferry Division	8,000 00
Paving Division	386,830 56
Sewer Division	117,234 38
Total	\$584,590 08

Third. — In 1891 an Act was passed by the Legislature, entitled, "An Act Relating to the Location, Laying Out and Construction of Highways in the City of Boston." (Chap. 323.) From this fund new streets and sewers assessable on the abutting property are built. The amount expended the past year was:

Streets	\$178,377 53
Sewers	190,697 93
Total	\$369,075 46

Four.—In 1895 an Act was passed by the Legislature and an Act in 1898 entitled, "An Act to Provide for the Laying Out and Construction of Certain Highways in the City of Boston" (commonly known as the Boulevard Act). (Chap. 334 of 1895; Chap. 236 of 1898.) The amount expended this year was as follows:

Streets	\$158,074 47
Sewers	46,354 68
Total	<hr/> \$204,429 15

Fifth.—In 1896 an Act was passed by the Legislature, entitled, "An Act Relative to Stony Brook in the City of Boston." (Chap. 530.) \$500,000. The amount expended this year was \$260,741.16.

Sixth.—In 1895 an Act was passed by the Legislature entitled, "An Act Relative to the Establishment of a New Ferry Landing in the City of Boston." (Chap. 435.) \$500,000. The amount expended this year was \$42,296.20.

Seventh.—In 1896 an Act was passed by the Legislature, entitled, "An Act to Provide for a Union Station for Passengers on Railroads entering the southerly part of the City of Boston." (Chap. 516.) The amount expended this year was as follows:

Sewers	\$87,984 59
Streets	6,885 28
	<hr/> \$94,869 87

Eighth.—In 1897 an Act was passed by the Legislature, entitled, "An Act relative to the Sewerage Works of the City of Boston." (Chap. 426.)

From this fund all "Sewerage Works" are built.

The amount expended the past year was \$464,830.00.

Thus the expenditures under the several appropriations of the year 1897 were as follows:

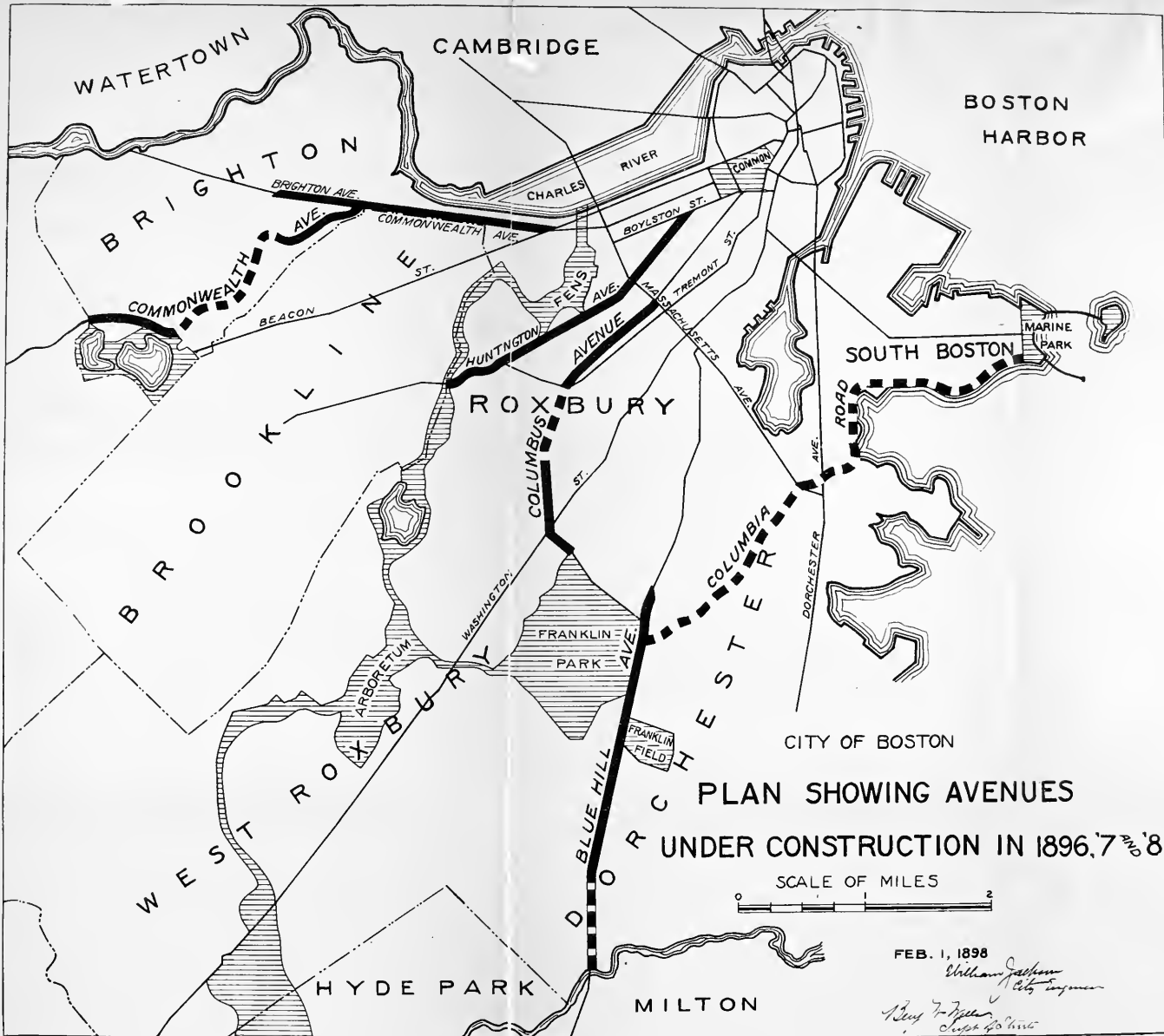
Maintenance	\$2,245,816 68
Street Improvements (by wards)	732,597 55
Bridge, specials	39,265 96
<i>Carried forward,</i>	<hr/> \$3,017,680 19

<i>Brought forward,</i>	\$3,017,680 19
Ferry, specials	5,862 88
Paving, specials	303,097 70
Sewer, specials	114,234 38
Laying Out and Construction of Highways, Blue Hill and Other Avenues (Boulevard Act)	457,323 83
Stony Brook Improvement	116,180 78
New Ferry Landing	260,741 16
South Union Station	42,296 20
Sewerage Works	94,869 87
	464,830 00
Total	<hr/> \$4,877,116 99

CONSTRUCTION WORK, STREETS AND AVENUES UNDER
"323" AND "BOULEVARD" ACTS.

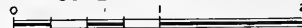
The following streets and avenues were under construction during the year, and have been wholly or partially completed at an expenditure of \$573,504.61 for both sewer and surface work:

Abbotsford street.	Granby street.
Athelwold street.	Greenbrier street.
Audubon road.	Harvard street.
Bay State road.	Huntington avenue.
Belmore terrace.	Ipswich street.
Belvidere street.	Lauriat avenue.
Bernard street.	Leroy street.
Bloomfield street.	Malvern street.
Blue Hill avenue.	Morse street.
Boylston street.	Norway street.
Brighton avenue.	Oakley street.
Burt street.	Parker street.
Chamberlain street.	Peterborough street.
Chamblet street.	Queensberry street.
Clinton street.	Ruggles street.
Columbia road.	Rosseter street.
Columbus avenue.	Sherborn street.
Commonwealth avenue.	St. Alphonsus street.
Elizabeth street.	St. Stephen street.
Ellet street.	Tonawanda street.
Fairmount street.	Turner street.
Fenelon street.	Vancouver street.
Fullerton street.	Waterlow street.
Gaylord street.	Wilder street.
Geneva avenue.	Wolcott street.



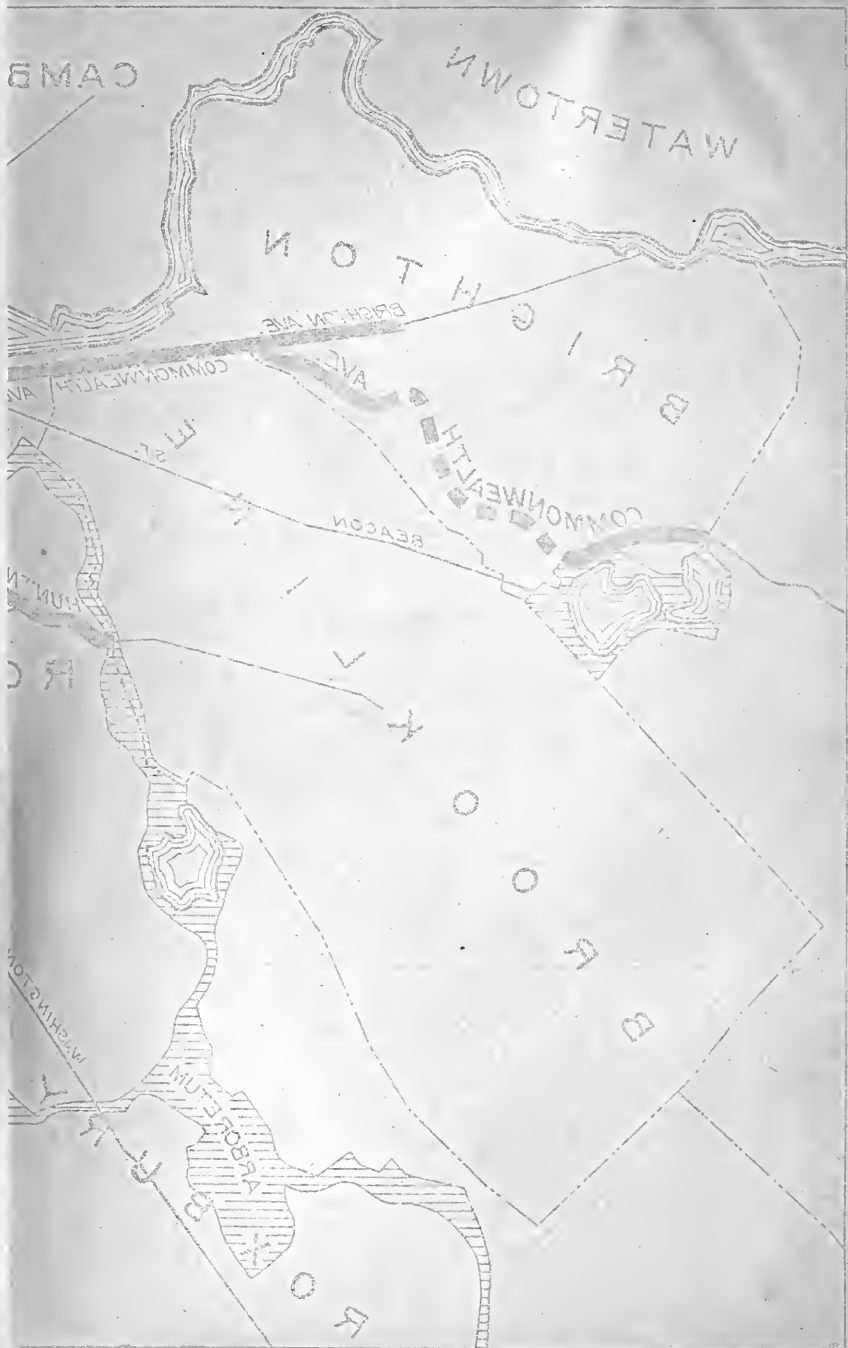
PLAN SHOWING AVENUES
UNDER CONSTRUCTION IN 1896, '7 AND '8

SCALE OF MILES



FEB. 1, 1898

William Jackson
City Engineer
George W. Carter
Chief of Survey



The year 1896-1898 was one of great activity in all the lines of Street Department work. In addition to the construction of many new streets and the reconstruction of an unusual number of old ones, another section of Columbus avenue, from Ritchie street to Washington street, was completed, a considerable amount of work was done on Commonwealth avenue, and a beginning made on the great new boulevard, known as Columbia road, which was planned, laid out, and the order of construction passed, during the current year. The present condition of the new avenues is shown by the accompanying chart. Brighton and Huntington avenues are completed; Commonwealth avenue is built to Warren street, the remainder being still under construction; Blue Hill avenue is completed to Walk Hill street, and the remaining section to Mattapan square will be ordered as soon as the question of the grade crossing of the New England railroad is settled, that now being before the Railroad Commissioners; Columbus avenue will be completed early in the coming year, the only section not built being that between Roxbury crossing and Ritchie street; the new boulevard, Columbia road, will be under construction for the two years to come, but the sections between Blue Hill avenue and Edward Everett square are already fairly under way.

The construction of Columbia road completes the system of boulevards which was commenced with the laying out of Commonwealth avenue in the year 1895. The map herewith shown gives the location of these great avenues, and the complete system of drives and beautiful residential territories, which have been developed, can be seen at a glance. Starting from the city proper, it will be possible to reach almost any of the outlying sections over well-constructed, wide avenues. Columbia road, the latest to be laid out, will perhaps be the most beautiful drive in the city, reaching as it does from Blue Hill avenue to Marine Park, City Point, one roadway being designed as a park road, the other as a traffic road, and the centre space reserved for the electric cars. A portion of this road will follow the shores of Dorchester bay, and the proposed plan will develop one of the most beautiful drives in any city, and convert what is now practically worthless territory into a valuable residential district.

The plan of treating hill streets, the grade of which is so steep as to make them impassable, which was followed in the case of Quincy street, Charlestown, and Ruth street, East Boston, was adopted for Covington street, South Boston, illustrations of which are inserted here. This form of construction seems to be well adapted to streets of this kind.

PAVING DIVISION.

Expenditure.

Maintenance.	Specials.
\$690,187.34	\$1,035,695.25

For expenditures under Laying Out and Construction of Highways, Blue Hill and other avenues, and South Union Station, see pages 2 and 3.

This division has charge of the maintenance and reconstruction of about four hundred and seventy-one (471) miles of streets.

The following shows the amount and kind of reconstruction work done by the Paving Division during the year:

	Sq. Yds.
Granite blocks on concrete base, with pitch-joints .	21,759
Granite blocks on gravel base	191,578
Asphalt	23,215
Macadam. See note.	

NOTE. — A very large portion of the work of the Paving Division is the reconstruction of macadam streets. The amount of this work is best shown by the number of feet of edgestone set up and gutters relaid, which are as follows:

Edgestone set and reset, 243,367 linear feet. Gutters laid and relaid, 70,273 square yards.

The quantity of cracked stone and telford furnished from the city ledges was as follows:

CRACKED STONE, BALLAST OR TELFORD.

Output of Stone from City Crushers.

	Crushed Stone. Tons.	Telford. Tons.
Bleiler's ledge.....	26,636	363
Centre-street crusher.....	20,052	
Chestnut Hill-avenue crusher.....	18,869	
Codman-street ledge.....	18,498	721
Commonwealth-avenue ledge.....	2,547	
Dimock-street crusher.....	37,265	
Kenney-street ledge.....	2,988	
Rosseter-street ledge.....	22,717	3,902
Totals.....	149,572	4,977



WASHINGTON STREET, SHOWING OLD AND NEW PAVEMENT.

The plan of repairing macadam streets with the steam roller by first picking, then lightly coating with stone and rolling in, was continued with success, and the coming season even more of the work will be done in this way, results showing that, at a small expense, macadam roads can be kept in excellent condition if given frequent care and attention. The difficulty at the present time, as it has been in the past, is that the maintenance appropriation is not sufficient to fully and systematically do this work. From the Paving Division maintenance appropriation, aside from the street work, must be taken sums sufficient for the removal of snow, cleaning of streets in the outlying districts, the placing of all signs, the maintenance of the Permit Office, the support of the stables and yards, rebates for stone and brick sidewalks, expense of numbering buildings, and the administration expenses of the Paving Division Office; thus the amount remaining for street repairs is inconsiderable, compared to the amount of work to be done.

The down-town section of the city has received but little attention in the last twenty years. A few main thoroughfares have been substantially repaved; but the great proportion of the streets are paved with the old small blocks on gravel base, and, through the placing underground of wires and other structures, have lost their shape, and are in such condition that constant attention from the force of patch-pavers is necessary.

More strongly than ever should be urged the making available of a sufficient appropriation to reconstruct the streets in the city proper. Boston in the past few years has expended freely in a most progressive way. The system of parks and of boulevards has been developed, and in this regard no city in the country can surpass what has already been accomplished and made possible to be done in the future. It is, however, a matter capable of demonstration that the amount of loss to the teaming interests annually caused by the rough and uneven pavements, to say nothing of the unsightliness and discomfort to the great mass of citizens, reduced to dollars would equal an immense sum of money.

Another aspect of this question is that owners of valuable and high-taxed property in the city proper certainly have the right to ask that the street surfaces in front of their premises shall be well shaped, well drained, and well cleaned. From every point of view the city would be the great gainer by doing the work necessary in the down-town section in a short period of time, rather than continuing the present system of doing a bit here and a bit there, and constantly repairing and

patching; and for this purpose, as has been done by cities in other States, an act should be passed by the Legislature allowing the city of Boston to reconstruct the down-town streets by an appropriation made outside the debt limit, and \$500,000 a year should be allowed for the term, say, of three years.

It must certainly be the wish of the citizens of Boston, that the streets of the city should be well paved and clean.

The press of this city might do a good work, when contrasting New York and Boston street conditions, if they would at the same time point out the causes of difference, namely, that New York has for the past three or four years expended several millions of dollars in substantially resurfacing and rebuilding—largely with asphalt—all the city streets.

It has been the custom for some years past for the City Council to appropriate each year a sum of money for street reconstruction. This money, with the exception of three or four assignments for special work, has been allotted by wards in equal sums, twenty-five wards receiving \$25,000 each without regard to the necessities of the different localities, and the work has been done by the street department under this limitation. This practice is very objectionable, for the reason that every year certain work must be done in some wards which exceeds the amount of \$25,000. This is particularly true in the down-town section where every year a certain amount of block paving and asphaltting should be done. I would recommend as a matter of department economy and for the general good of the city that the coming loan bill be passed as one appropriation, and the distribution and expenditure of the money be placed in the hands of the Superintendent of Streets. Under this arrangement, the most necessary work in all sections of the city could be done, no wards would suffer, and the present unsatisfactory conditions in certain localities might be removed.

Asphalt pavement is well adapted for the street surfacing of a large portion of this city, now macadamized or granite-paved, and the department is in receipt of many requests from individuals and from the City Council for this pavement.

The total amount of sheet asphalt pavement in Boston is 191,682 square yards, or 10.81 miles in length. It is distributed over 108 streets and parts of streets, the largest continuous stretches being on Columbus avenue and Huntington avenue. Of the total amount 112,216 square yards have been laid within five years, and are still under a maintenance guarantee from the contractors. The remainder, 79,466 square yards in area, is maintained in the manner of all other



STATE STREET UNDER CON

WING GRANITE BLOCK PAVING PITCH JOINTS ON A CONCRETE BASE.

city pavement. Up to the past year, the area maintained by the city was comparatively small; but in 1896 the guarantee expired on 32,050 square yards, and in 1897, on 30,118 square yards, and in 1898, 10,145 square yards more will come under the direct care of the city.

The street-cleaning work now done by the Paving Division, I believe should be transferred to the care of the Street-Cleaning Division, except that done in the semi-annual cleaning of the streets in the spring and fall, when both divisions work together. This matter I will touch on under the general subject of street cleaning.

While the relations of this department with the railroad and other corporations occupying the streets have in most cases been pleasant, and without friction, the companies generally evidencing a desire to do their work properly, at the same time, with the best intentions on the part of the companies and the most careful supervision that can be given by this department, there must be a certain deterioration in the street surfaces caused by their work; and I believe that it would be but fair and proper that some system be adopted whereby this loss might be made good to the city by those companies occupying the streets. This might be done either in the form of a percentage tax on the receipts of the companies, or a fixed charge of so much for their trench openings, the price to be based upon the depth and width of trench and kind of pavement. The ordinance requiring a bond to be filed by each company guaranteeing its work for six months should be amended by extending the time to twelve months, as all the work done in the late summer, expires in the winter season, when it is impossible to make proper examination or to do proper work.

The most notable work done by this division the past year was as follows, viz.:

Blue Hill avenue boulevard completed to Walk Hill street and Columbus avenue between West Walnut park and Ritchie street.

Columbia road sub-graded between Blue Hill avenue and the New England railroad.

These streets have been paved with large granite blocks with pitch joints on concrete base, viz.:

Bulfinch street, Congress street between State street and Exchange street, North street between Merchants row and Union street, State street between Washington and Commercial streets, Washington street between Kneeland street and a point 200 feet south of Dover street, and Winthrop square.

These streets have been paved with large granite blocks with pitch joints on a gravel base, viz.:

Charles street between Cambridge street and Leverett street, Washington street, 200 feet south of Dover to Waltham street, and Water street between Washington street and Devonshire street.

These streets have been paved with large granite blocks, gravel joints on a gravel base, viz.:

Dudley street, between Brook avenue and Upham's corner, Main street, from Miller street across Mead street and Tremont street from Columbus avenue to Sarsfield street.

Work has been in progress on twenty-one streets under the "323" Act, eight of which have been completed.

SEWER DIVISION.

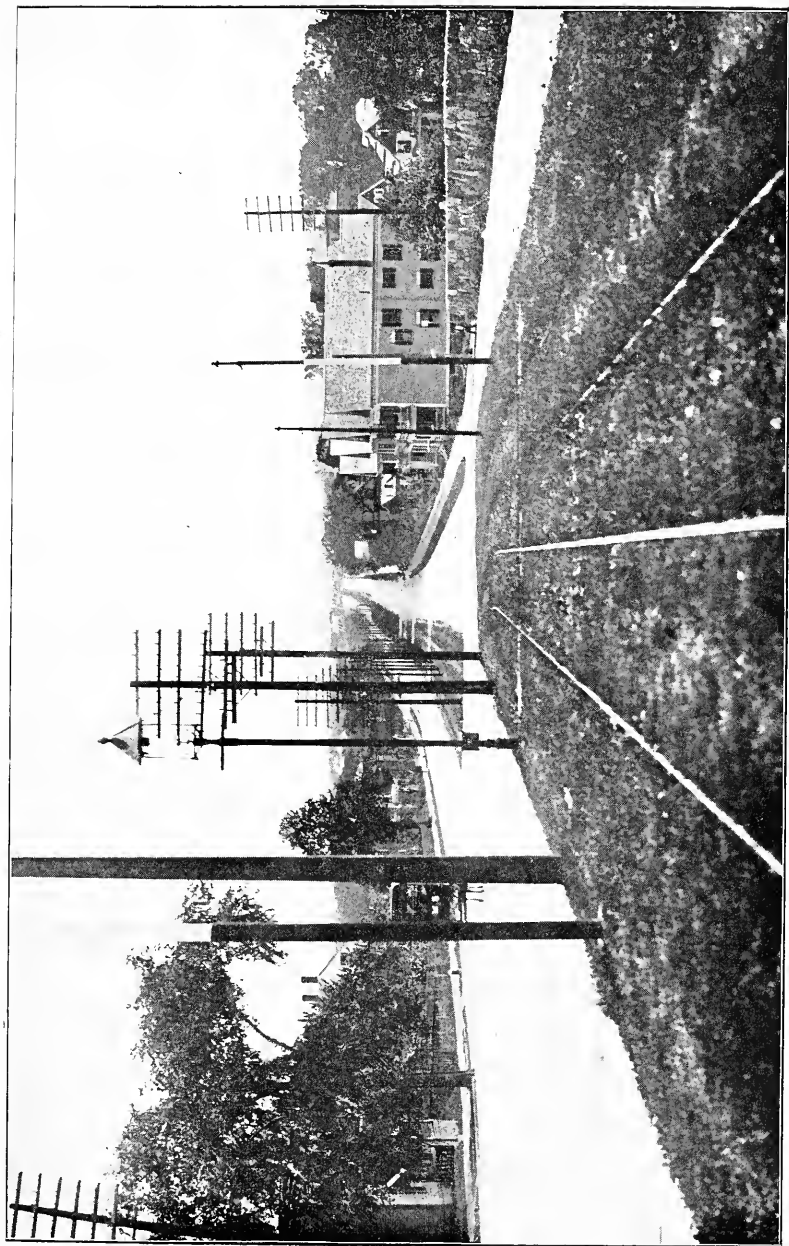
Expenditures.

Maintenance.
\$295,522.25

Construction.
\$839,805.54

For expenditures under Laying Out and Construction of Highways, Blue Hill and other avenues, and South Union Station, see pages 2 and 3.

The work and organization of the Sewer Division has very greatly increased during the past year, this being made possible by the passage of legislation (Chapter 426 of the Acts of 1897) giving the city of Boston the right to borrow annually \$1,000,000 for the construction of sewerage works, these works to be assessed on all estates benefited. The act also provided that a rental charge should be made for the use of sewers of a sum equal to the amount required for their maintenance and care. In former years it has been necessary for the City Council to pass in detail, appropriations for sewers, and as a result many great improvements which have been needed for years have been neglected owing to the difficulty of securing sufficient appropriations. Under the new act, this is done away with, and the most necessary work has been undertaken at once. The expenditures under the new act for construction for the first few years will be very considerable, but at the end of that time many of the large pieces of construction work will be accomplished, and the amount required will become less from year to year. The problem



BLUE HILL AVENUE BOULEVARD, SHOWING GREAT BLUE HILL IN THE DISTANCE.

of surface drainage which has so long troubled the department, is also solved by this legislation, and the most important brook channels have been taken in hand, and the work already commenced. A general study of the sewerage system of the entire city is being made, and the development henceforth will be on established and scientific lines, instead of following what has been the custom in the past—to construct, not according to the needs, perhaps of the near future, but as allowed by the limitations of the appropriation.

A great amount of work which has been done in recent years for the necessary relief of certain territories has not been designed to meet or connect with the future developments of sewers, and in many cases this has brought up a very serious problem of rebuilding sewers of quite recent construction.

Already much has been accomplished which gives very great relief to certain sections where the sewers were badly overcrowded, and the overflows of insufficient size, or the condition so bad as to cause a back-up in time of rainfall. Under this new act, I believe it safe to predict that in a few years no city in the country will be better sewered than the city of Boston; and in no city will it be more easy for the citizen to secure new sewers where needed or relief from improper conditions.

Following is the full text of the new act, under which, as stated above, the work of the Sewer Division is now conducted:

[CHAPTER 426.]

AN ACT RELATIVE TO THE SEWERAGE WORKS OF THE CITY OF BOSTON.

Be it enacted, etc., as follows:

SECTION 1. The city council of the city of Boston shall annually appropriate, to be met by the issue of bonds as hereinafter provided, sums not exceeding one million dollars in any one year, for constructing sewerage works in said city, and shall also appropriate, to be met by the annual charges hereinafter provided for, such sums as the mayor of said city shall deem sufficient for maintaining and operating the sewerage works, and such sums as the city treasurer of said city shall each year determine to be the amount to be used for the sinking funds for bonds issued for sewerage works, which, with all other amounts so used and their accumulations, will pay all such bonds at maturity; and there shall also be used for said sinking funds all premiums received from the sale of said bonds, and all amounts received for breach of any contract for constructing sewerage works, or for securities deposited as security for making such contracts and declared to be forfeited to the city, or for sales of property. All sewers, drains, pumping stations and other works

for the collection or disposal of sewage, or surface or ground water in said city, shall be included in the term "sewerage work," as used in this act, and no such work shall hereafter be constructed in said city, except under authority of this act, unless the same has been ordered to be constructed before the passage thereof.

SECT. 2. The board of street commissioners of said city from time to time, with the approval of the mayor, may order that sewers or drains be constructed in said city; that streams or water courses within the limits of said city be filled up or diverted from their original channels; that any such channel or any new channel be widened, deepened, paved or covered; that closed or open sewers or conduits be constructed for the drainage of lands, or that any part of any such stream or water course be so treated, or that any one or more of such things be done.

SECT. 3. Said board may take for said city by purchase or otherwise any lands in fee, and any rights or easements in lands, sewers, water courses and ways, which said board may deem necessary for sewerage works, and in order to take any such lands, water courses, rights or easements other than by purchase, said board, or a majority thereof, shall sign and cause to be recorded in the registry of deeds for the county of Suffolk, a statement that the same are taken for sewerage works, describing the same as certainly as is required in a common conveyance of land, and the lands, water courses, rights or easements so described shall upon such recording become the property of said city.

SECT. 4. The Superintendent of streets or such other officer as the mayor of said city shall from time to time direct shall carry out such order, and may at the expense of said city construct and maintain such work under or over any water course or private land, railroad or public way, in such manner as not to unnecessarily obstruct or impede public travel, and may alter or change the location or grade of any public way in which any such work is constructed, may alter or change the course of any water course, and in general may do any other act or thing deemed by him to be necessary in constructing or maintaining such work.

SECT. 5. Said city shall pay all damages sustained by the owner of any land, water course, right or easement taken by said board, or injured in any manner, or by any person, in doing any act or thing under section four of this act, the same to be agreed upon by said board with the approval of the mayor and said owner, and if they cannot agree the damages shall, on the petition of said owner or mayor, be determined by a jury of the superior court for the county of Middlesex in the manner provided by law with respect to lands taken for highways in said city of Boston, and costs shall be taxed and execution issued in favor of the prevailing party, as in civil cases. Any person whose water rights are thus taken or injured may apply as aforesaid within three years from the time of such taking or injury, and not afterwards.

SECT. 6. The treasurer of said city, to meet the expenses incurred in constructing any sewerage works heretofore or hereafter ordered to be constructed in said city, shall from time to time on the request of said board, approved by the mayor, issue to the total amount appropriated, but not exceeding one million dollars in any one year, bonds of said city, registered or coupon, as said treasurer shall from time to time determine, and the same shall not be considered in determining the limit of indebtedness of said city; said bonds shall

have priority hereof the words Sewerage Loan, shall be countersigned by the mayor and be made payable in terms of thirty years from their date; and shall bear such rates of interest not exceeding four per cent. per annum, payable semi-annually on the first day of January and the first day of July of each year, and be issued and disposed of in such amounts, in such modes, and at such times and prices, as said treasurer with the approval of the mayor shall from time to time determine.

SECT. 7. The board of street commissioners, with the approval of the mayor, shall annually before the first day of July determine just and equitable sewerage charges to be paid by estates in said city for the construction, maintenance and operation of the sewerage works, taking into consideration in determining the charges the necessity of the works as caused by each estate, the amount of use thereof, if any, by the estate or its occupants, the benefit received therefrom by the estate, the amount of any assessment for a sewer paid by any owner of the estate, the length of time which has elapsed since such payment, and the use, if any, that has heretofore been made of the sewerage works by the occupants of the estate, and such other matters as they shall deem just and proper. The determination of such charges as aforesaid shall be final in all cases, and the amount thereof as determined for each estate shall be a lien thereon until paid, and said board shall notify the board of assessors of said city of the amount thereof forthwith after it has been determined, and the same shall be included in the next tax bill on the estate transmitted by said board to the collector, or in a tax bill therefor if no other tax bill is issued for such estate, and be collected as a part of the taxes on the estate.

SECT. 8. All sewers and connections ordered to be made in constructing any way under the authority of chapter three hundred and twenty-three of the acts of the year eighteen hundred and ninety-one, and of acts in amendment thereof or in addition thereto, shall be deemed to be constructed under the authority of this act, and the expenses therefor shall not be considered in determining the assessable cost of work, to be assessed under the authority of said acts.

SECT. 9. No person shall destroy or injure any sewerage work of said city, or without lawful authority therefor pollute or place or maintain any obstruction in any natural watercourse therein; and whoever violates any provision of this section shall for each offence be punished by a fine not exceeding one thousand dollars or by imprisonment in the house of correction not exceeding six months, or by both such fine and imprisonment.

SECT. 10. The supreme judicial court and any justice thereof, and the superior court and any justice thereof, shall have jurisdiction in equity, on the complaint of said city by its attorney, to enforce the provisions of this act and to prevent any violation thereof.
[Approved May 22, 1897.]

STONY BROOK.

The work of connecting the Commissioners' channel at the inlet chamber, near Pynchon street, with the portion of the same channel built by the New York, New Haven and Hartford Railroad Company, has been completed this year, so that the Commissioners' channel is now built continuously from the

Back Bay Fens to Boylston station, with the exception of a small section near the site of the inlet chamber which is still open and uncompleted, pending the settlement of the claims of the Boston Belting Company. When the terms of this settlement are made, this piece will be completed either by building a channel of uniform size through the inlet chamber, or by putting in some form of gates or weir at this point.

During the coming year surveys are to be made to determine the line of the extension of this covered channel to the Hyde Park line. If possible a shorter and straighter line lying, mostly in the public streets, will be selected.

Next winter the city should petition the Legislature for permission to make a loan outside the debt limit, for the purpose of extending this channel as far as Forest Hills. The channel will be built as a covered conduit, as it lies through a thickly settled part of the city where an open channel is very objectionable.

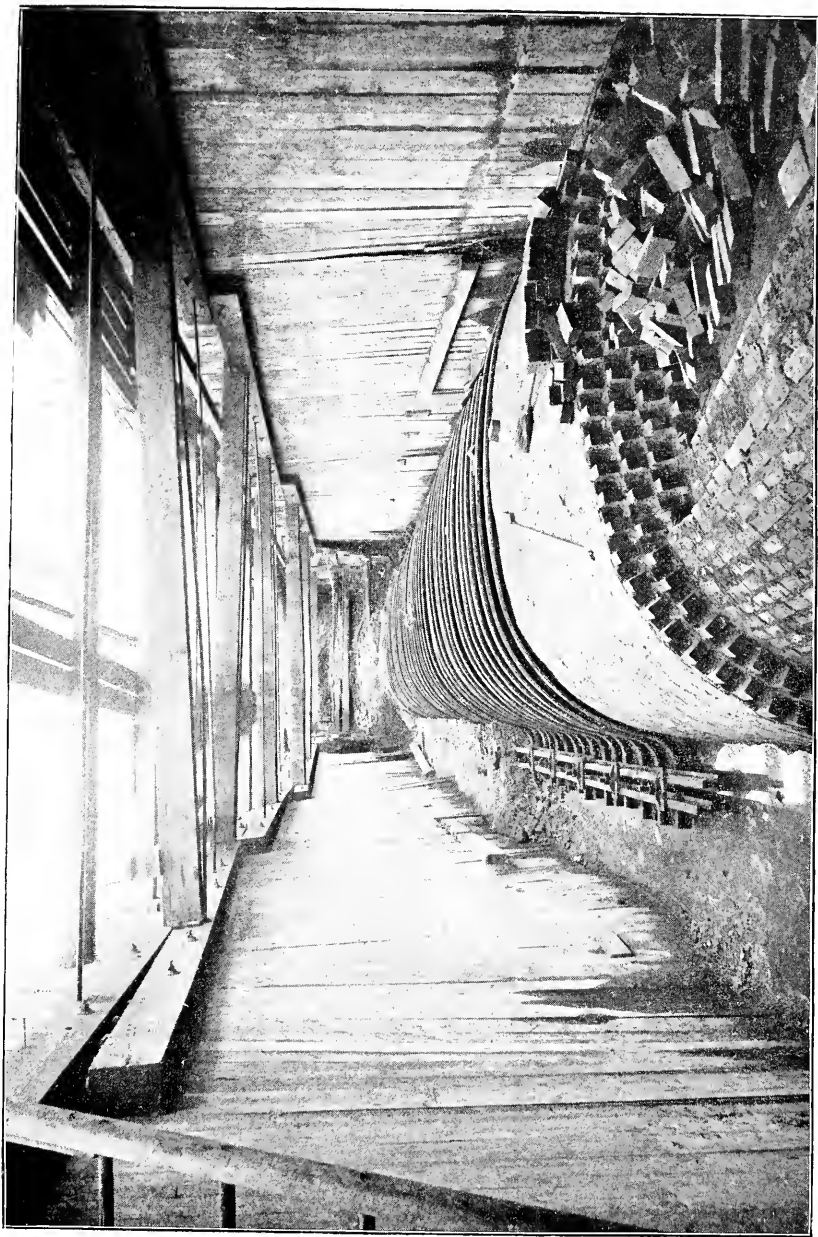
SURFACE DRAINAGE.

Under the provisions of the Sewerage Act, chapter 426, of the Acts of 1897, takings are to be made of all the brooks and natural water-courses of the city, and during the coming year extensive improvements will be carried out. Work has already been started upon Tenean brook which, when completed, will relieve the Lonsdale and Templeton streets district, the Geneva-avenue district and the district around the so-called "Clay Pits," and will also relieve the overcrowded sewer in the vicinity of Gibson and Park streets, where at present, in time of heavy rainfall, the manhole covers are forced some feet into the air, and the streets and fields flooded.

CANAL-STREET SYSTEM.

A very important and necessary piece of work, commenced last year, with a partial appropriation made by the City Government under the law then in force, was the construction of the Canal-street relief sewer. This was carried last year from the interceptor on Atlantic avenue through Central street, India street and a portion of Commercial street. This will be continued the coming year, and probably completed to the connection of the Canal-street sewer, near Causeway street.

The route of this sewer, was originally projected through Clinton and Blackstone streets and Haymarket square.



KNEELAND STREET SEWER SHOWING DEPRESSED SECTION UNDER SOUTH TERMINAL STATION SUBWAY

On account of the fact that if the Boston Transit Commission should determine to build a subway in Hanover street, the grade of this subway would be so low that it would be necessary to siphon the sewer; the route was changed to go from Clinton street, through Fulton and Cross streets, to Haymarket square, for the reason that, at the point where Cross street crosses Hanover street, the proposed grade of the subway is high enough to allow the sewer to be carried under it without siphoning.

Sewers have also been built in Atlantic avenue, by which the pollution has been removed from the Mercantile wharf and adjacent docks, and in Charles and Allen streets, relieving the condition of the sewer system in Brighton and Allen streets, and also in South Market street and many other small streets.

The Boston Transit Commission, in connection with other work, has rebuilt sewers in Adams square, Beacon and School streets, Cornhill, Hanover street, Tremont street and Tremont row, and Washington street.

The building of the South Union station has resulted in a general remodelling of the sewer system in that part of the city. The sewers in Beach, East, Essex and Summer streets have been combined and carried out, and a new outlet sewer built in Summer-street extension.

About 700 feet of the interceptor in Cove street has been rebuilt and carried out around the head-house of the station, and a very large sewer built from Cove street, across the railroad land, a short distance north of Mt. Washington avenue, which is designed to take the sewage of Kneeland and Harvard streets district. On account of the low grade at which the railroad subway is designed across Mt. Washington avenue, this sewer had to be very much depressed, the crown of the sewer being at Grade 3; and as there was not sufficient weight of material over the sewer to resist tidal pressure, a particular form of construction was adopted, the arch of the sewer being held down by bent rails, and carried over the sewer, and bolted down on each side of the sewer to the pile caps underneath, as shown in accompanying cut.

The most important work which is contemplated for the coming year in the city proper is the completion of the Terminal sewers above mentioned, and continuing the large sewer under the railroad yard up Kneeland and South streets, from the interceptor to Harvard-street sewer, and the completion of the Canal-street sewer.

A district regulator will also be built on the interceptor, near Summer street, and a regulator in Kneeland street, near

Cove street, connecting with the interceptor by a small brick sewer in Kneeland street. At the request of the Terminal Company, a portion of the intercepting sewer, near the location of the gas-holders at Federal-street bridge, will be rebuilt at its expense, in order to enable the city to abandon the portion of the existing interceptor which crosses under the proposed location of the Terminal Company's subway at this point. The house sewer will be built in the new Dorchester avenue, between Summer street and Mt. Washington avenue. The North Market-street sewer needs to be rebuilt; also, sewers in India, Milk and adjoining streets, which are in bad condition.

In Commercial street, near Clark street, the sewer system is excessively old and leaky, and must be remodelled, and probably entirely rebuilt, as the tide rises and falls freely in these sewers at the present time.

In Charlestown and East Boston, the work on the connections of the North Metropolitan sewer will be continued and completed the following year. This will mean for these localities a great relief from the former unpleasant and unhealthy disposition of the sewage on the flats.

A large amount of sewer work is required in West Roxbury, and the coming year will be an active one in that locality. Owing to the completion of the Neponset Valley Metropolitan sewer through this territory, many sewers can now be built which before were not possible; and large areas, which for a long time have been partially developed, can now be made available for residence.

The abolition of grade crossings at Roslindale and Spring-street stations will necessitate some changes in the surface drainage at these points, and will allow the proper development of the sewer system for the Hewlett-street district, which has been held back on account of these proposed changes.

A very unusual amount of sewer work has been completed in Dorchester the past year; and, in addition to the great number of small sewers, might be mentioned the Rosemont and Mill-streets main sewer, which will be carried on in connection with the building of the covered channel for the southern branch of Tenean brook.

The completion of the Columbia-road boulevard will require a large amount of sewer work to be done in that section the coming season, which has already been commenced. A new sewer system will also be constructed for the northern half of Savin Hill, including the portion of Savin Hill avenue between the railroad and Grampian way.

In addition to the considerable amount of ordinary sewer work in South Boston, there has been completed the past year the B and Seventh-streets overflow, and also the sewer in Dorchester avenue between B and D streets. Included in the work remaining to be done in this section are the B-street and Kemp-street outlets.

About 2,100 feet of the West Roxbury low level sewer has been completed this year. The building of the sewer system in Columbus avenue, between Roxbury crossing and Dimock street, is in progress. The relief sewer for the Notre Dame-street district is well under way, and will be completed in another year. This will relieve this section, which has suffered for many years from floods and surface water. The Dorchester-brook sewer has been extended from Norfolk avenue to Clifton street. The long-needed rebuilding of Harrison-avenue main sewer has been nearly completed this year, and this will enable the city to correct the sewer system of the adjacent territory. A considerable amount of new work has been done in the new territory south of Massachusetts avenue, and adjoining the park. There is still under consideration the building of house sewers to relieve from sewage the old Stony-brook channel between Huntington avenue and Elmwood street. This old channel should be rebuilt, and a general system of sewerage for that district introduced. As this involves a very large expenditure, the matter has been held in abeyance until other more important work is accomplished. This matter will be given careful study the coming year.

Muddy-river conduit in Brookline avenue should also be repaired, and a considerable portion of it rebuilt. This also is a very extensive work.

A considerable amount of work has been accomplished in Brighton. The coming year a large number of petitions for house sewers will receive attention, and the matter of surface drainage of this territory will be taken in hand.

There has been considerable complaint from residents in the neighborhood of the Back Bay Fens regarding sewage deposits. It is claimed, and justly so, that the Stony brook water is contaminated with sewage, and that the settlement of the past twelve years, since the Fens were constructed, has resulted in a very large amount of objectionable deposits. There is but one way to overcome this difficulty, and that is to extend the Stony brook channel to Charles river. This would cost a very considerable amount of money, and the first portion to be undertaken would be the reconstruction of about 4,500 feet of the old Stony brook

channel, at an estimated cost of about \$250,000. Ultimately the new channels of Stony brook should be extended to the Charles river.

It is important that the Fens should be cleaned, and the existing deposits of sewage removed. I would recommend that an appropriation be made for this purpose, and this would undoubtedly for some time to come remove any serious objections. It is estimated that this would require the sum of \$25,000.

In the last annual report a brief account was given of the controversy between the Metropolitan Sewerage Commission and the city of Boston, and the matter was followed up during the past year. Finally, an agreement was arrived at, and a contract drawn for five years, from 1896 to 1900, inclusive, by which, the amount the Metropolitan Sewerage Commission will pay the city of Boston for the rental of its sewer system is defined. As a matter of record, a copy of this contract will be found in the Sewer Appendix, page 251.

Upon the execution of this agreement, the department proceeded with the work of enlarging the sewage storage reservoirs at Moon Island, a contract was let, and work has been begun. The result of this construction will be the doubling of the capacity of the reservoirs, and it is expected that they will prove sufficient for all requirements likely to be made until the year 1905. If at this time the volume of sewage becomes so great as to overtax the reservoirs, further extensions will have to be made, for which there is ample room on the island.

At the same time, the pumping plant at the Calf Pasture has been thoroughly overhauled, and its capacity increased. A contract has been made for designing a new 72,000,000-gallon sewage-pump, which is to be set upon a foundation built for that purpose when the original plant was put in. The design for this pump will be completed during the coming year, and a contract let for its construction, it is expected, during the succeeding year.

SANITARY DIVISION.

Expenditures.

\$492,670.56

The past year the collections of this division were as follows: 353,725 loads, 54 cubic feet each, of house dirt and

ashes ; 56,783 loads of house offal, showing a very considerable increase in the amount of material removed.

No special money being provided for this division, it has been necessary to use the maintenance appropriation for the purchase of certain supplies which were not estimated when the appropriation was made ; and, in the interest of safety, it was necessary to expend a considerable sum on the Fort Hill wharf.

The dumping scows also have required a considerable expenditure in docking and repairs.

A contract has been made with the New England Sanitary Product Company to receive the offal at various dumping points, and remove the same to a plant to be constructed by them at the Cow Pasture. This will do away with the very objectionable practice of dumping this material at sea. The contract and plans require that a plant shall be erected by the contracting company, substantial in every way, and thoroughly adapted to the purposes for which it is to be used, and it is expected that on completion the most perfect plant of its kind in this country will be in operation.

Before the end of another financial year, it is my hope to also report a plant in operation for the disposal of the combustible waste. This matter has received careful attention, but it has not been possible as yet to bring about the improvement. I feel confident, however, that the coming year this matter will be taken care of. It will then be only necessary for the city to dispose of its solid ash collection, and, as this is clean material, there is no objection to either dumping at sea or depositing on vacant land. The entire matter of the disposition of the waste products of the city will then be handled in a proper and sanitary manner.

As the garbidge must now be handled for final disposition, separately from the ashes, it will be necessary to reconstruct Fort Hill wharf, so as to allow two scows to dock at the same time, there now being but one berth.

The steel carts put in service last year have proved satisfactory, and I would recommend the gradual displacement of the old form of wooden cart by new steel dumping carts.

STREET CLEANING DIVISION.

Expenditure.
\$309,993.38

Cleaned 13,261 miles of streets; removed 121,768 loads of dirt.

The work of this division has been carried on substantially on the old lines, with the exception of such slight extension of the patrol service as the appropriation would allow. The work of this division is greatly increased, and the results made less satisfactory, from the fact that so large a portion of the down-town streets are old and in poor condition. On streets newly constructed with modern paving — either asphalt or granite blocks with pitch joints — it is a comparatively easy task to keep the pavements clean; and on all such streets the patrol system is largely used, and as a result these streets are always clean and show up handsomely. There is, however, but a very small proportion of the down-town area that has been repaved for many years.

It is desirable that street-cleaning districts be established in the sections of the city which are now covered in this work by the Paving Division. Under the present plan, as a matter of economy, it has been the practice for the Paving Division to do the street cleaning in the sections where, at the time of this arrangement, there was little or no paving; and also in East Boston. I would recommend that a street-cleaning force be established in East Boston, Dorchester and Brighton. No stable accommodations being available, and the appropriation not being of sufficient size to warrant, this plan has not been carried out. The street-cleaning forces, however, have been sent for the first time, as often as arrangements could be made, to Brighton and Dorchester. East Boston is cared for by the men of the Charlestown District.

By the purchase of wharf property in East Boston in 1897, it is now possible, if an appropriation can be obtained, to make suitable quarters for the establishment of both Street-Cleaning and Sanitary Districts in that section of the city. In Dorchester, there is available for this purpose the buildings on Gibson street, excellently located, and to be secured at a low cost.

A special appropriation should be made for the removal of snow; it would then be possible to estimate with some accuracy the amount required for doing the work of the year on a certain basis.

A more rigid enforcement of the ordinances in relation to the throwing of waste materials into the streets would greatly assist the department in setting a higher standard of cleanliness.

BRIDGE DIVISION.

Maintenance.

Expenditure.

\$126,529.32

Special.

Expenditure.

\$39,265.96

The City Council has greatly neglected this division in the matter of appropriations. Until within the past two years an appropriation has been made for the reconstruction of certain old bridges which were badly out of repair, and the maintenance appropriation has never been considered to be made for the purpose of doing new work. The care of the 128 bridges and the payment of draw-tenders and other employees and necessary repair stock and supplies is all that is contemplated when the maintenance appropriation is made.

No special money was voted last year, and only by great effort was a small amount transferred, which made possible some slight reconstruction work on Congress-street bridge, whereby it was made safe. Several of the most important bridges of the city, where the travel is greatly increased are in such a condition that immediate action should be taken. Substantially new bridges are required at Congress street, Mount Washington avenue and Malden, and other bridges are in need of considerable reconstruction.

FERRY DIVISION.

Maintenance.

Expenditure.

\$219,983.24

Specials.

Expenditure.

\$5,862.88

Receipts.

\$171,449.21

For expenditure under the New Ferry Landing see page 3.

During the past year addition has been made to the electric motors for assisting teams up the drops. These have worked well, and have made possible a better running time of the boats. Three boats have been equipped with electric lights, now making five boats so provided. Contract has been let for the building of a new ferry-boat, the completion of which is called for by May 1, 1898. Another boat will be immediately contracted for as soon as this one is in service, and found to be satisfactory.

One new drop and tank have been constructed and put in place at the South Ferry, East Boston side, and the City Engineer recommends that two more be built and placed in position. When this is done, all the drops will be practically new. Plans and specifications have been prepared for a new head-house and the re-arrangement of slips at the South Ferry, East Boston side. There is some question as to the land-takings, which may delay the prosecution of this work.

The "East Boston" and "Hugh O'Brien" have been hauled on the railway, calked and metaled during the past year. The boats are now in good condition with the exception of the old "Winthrop," which cannot possibly be made to do service more than one or two more years.

STREET WATERING DIVISION.

Expenditure.

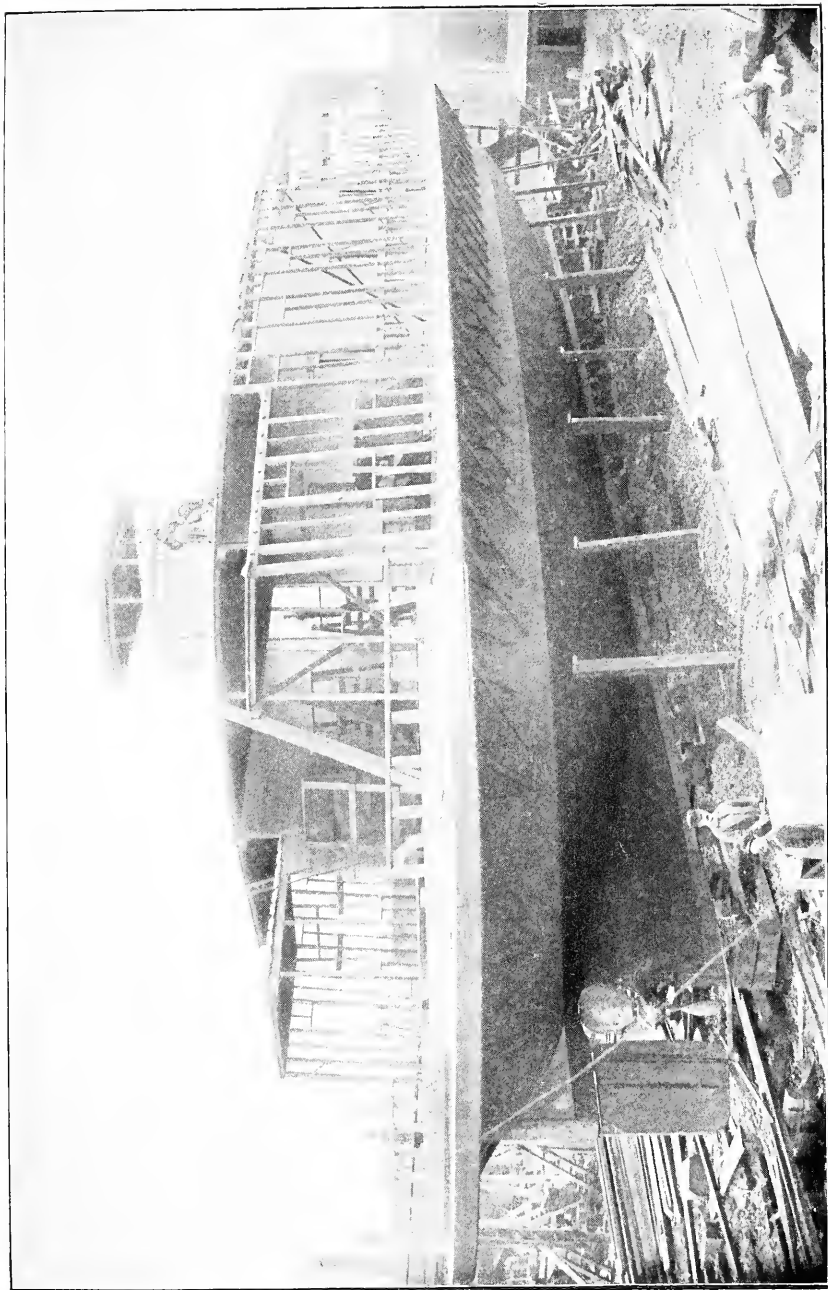
\$78,736.72

Not including water-bills of

\$76,930.40

The season of 1897 was a very difficult one, unusual weather prevailing until late in the fall, making it necessary to extend the street watering season. The increase in expenditure over last year of about \$7,500 was made necessary by this lengthening of the season.

To properly cover the work of street watering, a larger appropriation should be made available; and I would recommend that for the coming year the watering of all the city streets be placed under the supervision of this department, and advantage be taken of the Act passed by the Legislature of 1897, authorizing this work to be done and the cost assessed on the owners of the abutting estates. At the present time the city undertakes the care of macadam streets only, and the watering of paved streets is done by subscrip-



FERRY-BOAT "GOV. RUSSELL," SHOWING CONSTRUCTION.

tion to private contractors; thus the burden bears unfairly, and the results are not satisfactory. In certain sections of the city, particularly in the poorer quarter, where the streets are paved, no watering is done for the reason that the people are not able to pay, or their great numbers make it difficult for arrangements to be made for the work by individual efforts.

Under the Assessment Act the cost of street watering would be assessed on the property, and the amount would be so small that it could hardly be felt as a hardship. Studies are being made along this line, and it is probable that the City Council will be asked to authorize the department to undertake the street watering under the Assessment Act.

As mentioned in my last report, it was expected that a thorough trial would be given the electric watering car service. The matter, however, was blocked by the management of the West End Street Railway Company, and the experiment still remains untried. Under present conditions, however, I anticipate no trouble of this sort the coming season, and the subject will be thoroughly gone into.

PURCHASE OF SUPPLIES.

The same careful attention has been given through the purchasing agent to the purchase of supplies for the department. The establishment of a Central Supply Department and stock-room has made it possible to take advantage of the market, and the matter of distribution and checking of supplies has been given more attention, with good results.

STABLES AND BUILDINGS.

The condition of the buildings occupied by the Street Department for stables and other purposes is such that a very considerable amount of money could be expended to advantage, and with an ultimate saving to the city. As far as the maintenance appropriation would allow, repairs, painting and additions have been made; but these have necessarily been quite limited. In the west yard, on North Grove street, there is ample room for the care of a much larger force. The buildings at this yard are, with one exception, old, badly arranged, and so situated as to cover the ground with the least economy of space. Could an appropriation be made, it would be possible to re-arrange this yard, so that all the horses and teams required for service in that district, by the Street-Cleaning, Sanitary and Sewer Divisions, could be provided for. What is true of this yard applies to many others.

In West Roxbury, the Paving Division stable is in such condition that it is hardly worth while to repair; and yet, in its present shape, it is almost untenable.

A hospital for sick horses is greatly needed. I trust the comparatively small amount of money needed for this purpose will be made available next year.

An additional number of at least fifty horses could be employed with economy and advantage to the general work of the department. Stable accommodations, however, are such that it is necessary to depend on hired teams.

SMOKE NUISANCE.

Under the provision of the statute relative to the abatement of the smoke nuisance in the city of Boston, this work has been authoritatively assigned by the Mayor to this department for some years. This includes careful inspection of all boiler plants and the examination of all plants in the matter of smoke nuisance. No boiler permits are granted by the Building Commissioner without first receiving the approval of this department; and before this department consent to these permits, the applicant must make satisfactory representation as to the proper equipment of the plant, so that no smoke nuisance will arise.

Although it is a somewhat difficult matter to handle, the results of the work of this department in this city have been quite satisfactory. One inspector and two assistants devote their entire time to this subject.

COMPLAINTS.

Much attention has been given by the present administration to the treatment of complaints and requests received at this office, and a system has been developed during the past year which it is believed is producing excellent results. In past years there appears to have been no uniform method of dealing with complaints, each having been treated as an individual case. In some cases a memorandum was sent to the proper official, in others a formal letter, and sometimes the original complaint. In any case there was no regular system of obtaining reports or recording the results of such investigation as was made, and no assurance was given to the Superintendent that the causes of dissatisfaction were removed or explained.

Under the present system, on receipt of a complaint, it is immediately stamped with a number (these numbers being consecutive), a reference to the proper official of the depart-

ment, and brief statement of what action or information is desired. Complaints are then made on a day book kept for the purpose, giving the name of the complainant, number of complaint, official to whom referred, and memorandum of the subject and of the directions given by this office. Thus, in a very few minutes from the time of its receipt, the document is on its way to the proper official to receive such attention as may be required.

Each complaint so forwarded is required to be returned to the Central Office, with a report stating what action has been taken, and giving such information as is necessary to a full understanding of the case. To avoid any risk of complaints being overlooked in the several divisions of the department, each complaint on being returned is checked off in the day book, and each week a list, by numbers, is sent to the different divisions of any complaints forwarded during the preceding week and not yet returned. Upon the receipt of such notice the official in charge is required either to return the documents with explanation of the delay, or to report what progress has been made, and what further action is proposed.

Upon receipt of any complaint, suitable acknowledgment is made to the writer. If the cause of complaint is such that there must necessarily be some delay, or if there are any special circumstances to be explained, a letter is written; but if the matter relates to some fault in the service or to some minor defect in a street or in some of the structures under the care of the department, a printed form on a double postal card is filled in and sent. This consists of a statement (signed by the Superintendent), that the communication has been received and referred to the proper division for action or report, with the number and date of the complaint. The reply card attached is addressed to the Superintendent of Streets, and contains a printed acknowledgment that the matter has been satisfactorily attended to, with number and subject of complaint and date of receipt, and blanks for date of reply and signature of complainant.

At the bottom of this reply card is left a space for any comment which the writer may desire to make, and this can be used, if desired, for forwarding a second complaint if the former one has not been attended to in a satisfactory manner. When a reply card containing such further complaint is received, it is compared with the report (if already on file), and forwarded to the same division to which the original complaint was sent, and a record made on the day book. The number on the card and on the original complaint being

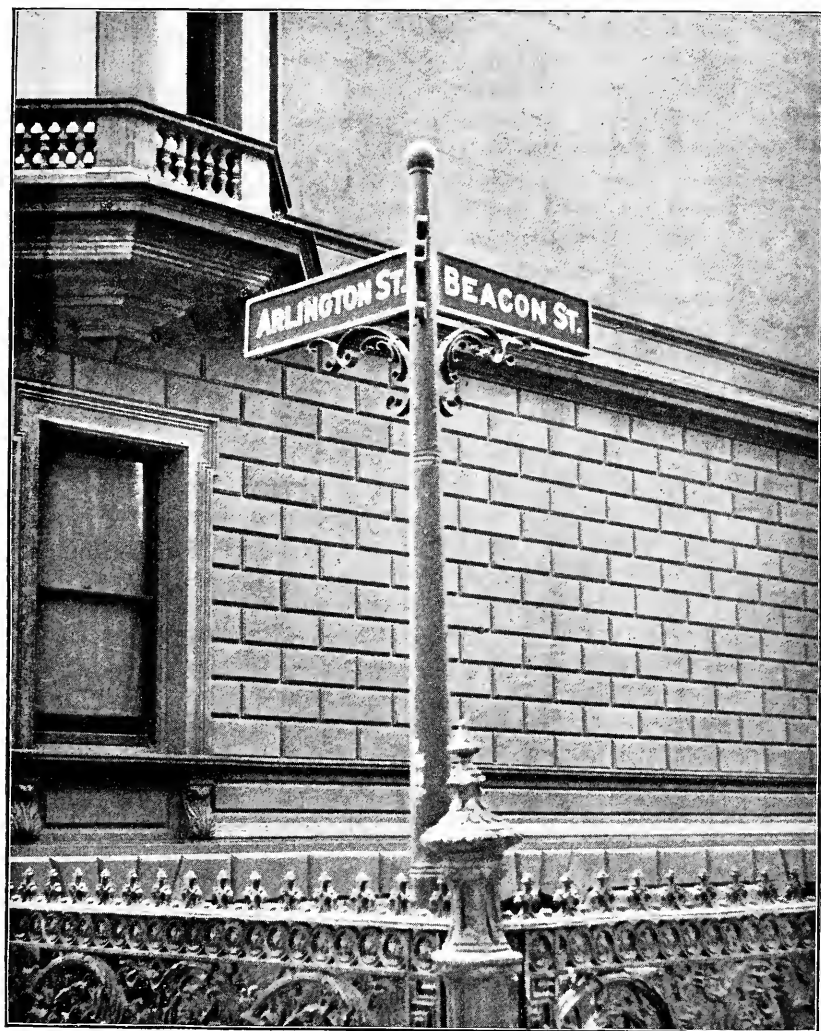
the same, it is very easy to trace the responsibility for any delay which may have occurred.

Of the acknowledgment cards sent out from this office, letter-press copies are taken, making practically as good a record in the letter books as though a letter had been written and sent, and at a great saving of time. It will be noted that by the use of these reply cards the acknowledgment of satisfactory service by the complainant only requires the insertion of the date, and the signature of the writer—the card, as already stated, being addressed, ready for mailing.

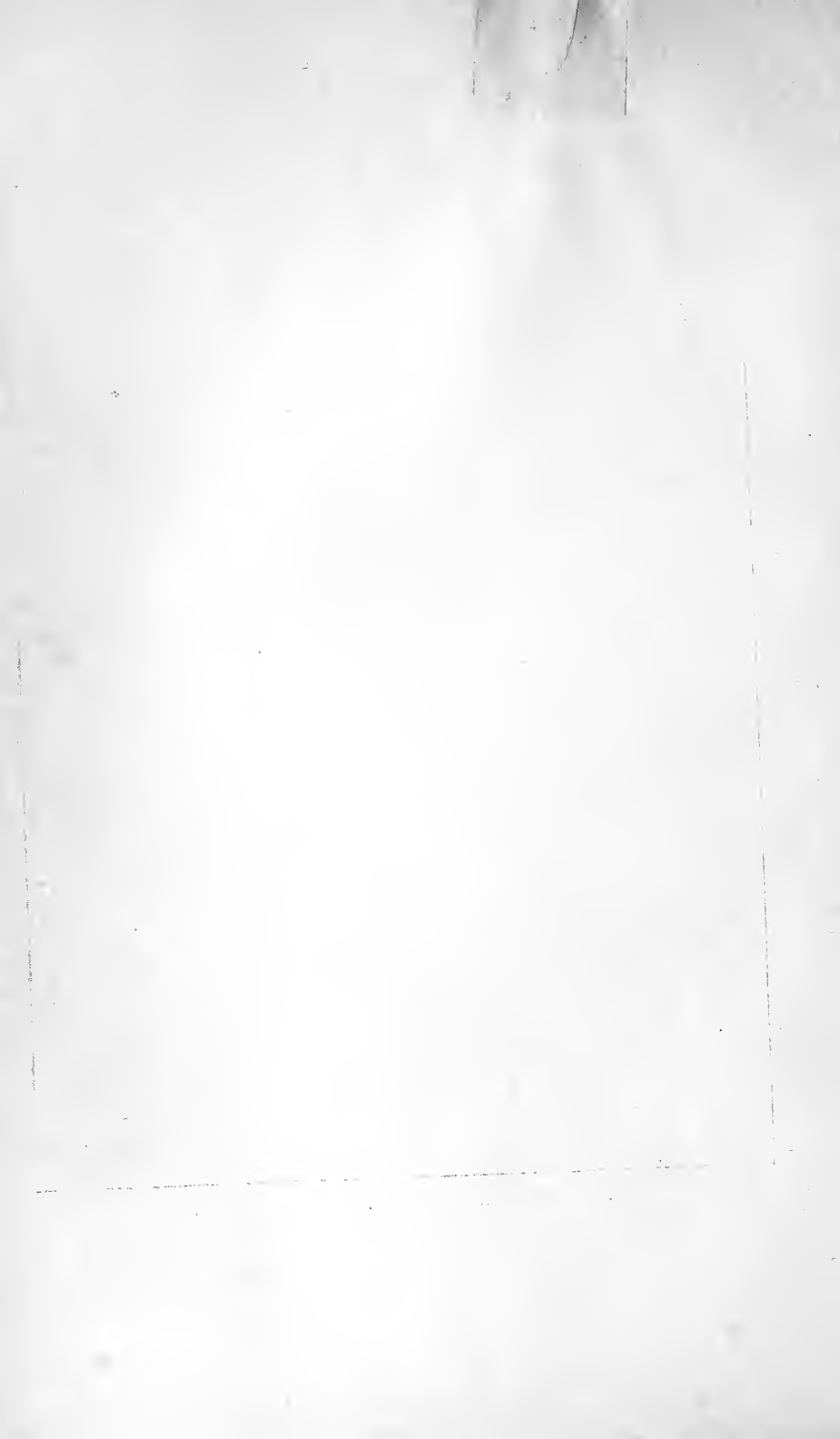
The daily record of complaints, in which the numbers appear consecutively, is indexed each day alphabetically under the names of the complainants. When the complaints are finally returned to this office, they are pasted in file books in the order of their numbers, the reply cards being attached to the complaints to which they relate, and fully indexed by giving the names of the writers and the subjects of complaint. It is thus easy to turn back to former complaints on any particular subject or from any particular correspondent.

By this system, it is believed that the essential conditions of good service are fulfilled, and at a comparatively small expenditure of time and labor. It insures the immediate transmission of the complaint to the executive officer in charge, and his prompt action and report; it gives the correspondent the assurance that his complaint is receiving attention, enables him with very little trouble to acknowledge satisfactory service, and gives him an opportunity to make further criticism if he desires; and finally, it brings all the facts in the case before the superintendent in such a manner that he can readily forward to the complainant an explanation of any circumstances in regard to which it is desirable that he should be informed.

It may not be out of place to say that the department not only admits the right of every citizen to make reasonable complaint, but fully recognizes the fact that intelligent and friendly criticism is a most valuable aid to good service, amounting as it does to a system of volunteer inspection, and supplementing the regular inspection service of the department. The public has shown itself to be very willing to co-operate with the department in carrying out the details of this system. When the return postal cards were introduced, while it was believed that a large proportion would be returned, it was feared that many would be neglected or forgotten; but the result has exceeded expectation, the number not returned having proved a very small one. Moreover, the great majority of complainants, finding themselves met in



ONE OF THE IMPROVED STREET SIGNS, STYLE No. II.



a spirit of fairness, and with a desire to do what is possible for their relief, have endeavored to be reasonable in their demands, and anxious only for efficient service and the good of the public; and I wish to take this opportunity to express my gratitude to the many good citizens who have given the department their co-operation and support in its efforts to improve the service and adapt it to the needs of the community.

SIGNS.

Greater and more systematic attention has been given this year to the placing of street signs. New and more attractive styles of double-faced post signs have been devised and adopted. While this may seem a comparatively unimportant matter, the many favorable comments made by citizens to the department show that this improvement has been appreciated.

The signs placed by this department are made by the Sanitary Division, but the work of locating is under the supervision and direction of, and the expenditure charged to the Paving Division.

BOSTON AND CAMBRIDGE BRIDGES.

No work of importance has been undertaken the past year on these bridges. The utmost care, however, has been necessary to keep them safe under the limited appropriation, and in good condition for the immense travel. ✓

I must again express my appreciation of the services of my associate, Mr. William J. Marvin, of Cambridge, upon whom the detail of the work has largely fallen.

The matter of a new bridge to Cambridge, as recommended in the last report of this department, is before the present Legislature, with an excellent prospect of legislation being passed which will make possible the construction of a new and adequate bridge.

Craigie Bridge.

A new sidewalk has been built on the south side of the bridge for the whole length of the Cambridge end, a new roadway has been laid for the same distance between the sidewalk and the track, one hundred and twenty-five feet of new sidewalk has been built on the north side at the Boston end, and new timbers were put under the draw to hold it in place. The work was done at night so as not to stop travel. ✓

The pavement on the north side of the bridge for its whole length has been repaired, and the following repairs have been made on the draw-tender's house: New gutters on piazza, new tinning on ell, two chimneys re-topped, two coats of paint put on house. The engine-house and iron on pier, and the new fence have been painted, and two chimneys re-topped on the house at the Cambridge end of bridge.

The bridge is swept once a week, always after midnight, and the roadway is watered with salt water three times daily when necessary to lay the dust. The ordinary repairs, and sweeping sidewalks and piers have been done by the draw-tender and assistants; draw sheathed when necessary.

Next year the sidewalk on the north side at the Cambridge end will have to be rebuilt, a new fence built, and the roadway paved. The sidewalk on the south side Boston end will have to be repaired and a new fence built. A part of the piles at the Cambridge end have been in place about one hundred years, and they have to be looked after very closely to prevent accidents.

Harvard Bridge.

Harvard bridge is in good condition. At the request of the riders of bicycles, for a width of three feet from the curb-ing on each side of the bridge, the sheathing which has just been completed, was laid lengthwise of the bridge, the balance being laid diagonally as heretofore. This flooring lasts about nine months, and then repairs have to be made. Last year about thirteen thousand feet of the best of the old sheathing was saved for patching, making quite a saving, and when sheathing the roadway this year about the same quantity was saved for use in a similar way next year.

The cost of sheathing the roadway was \$2,795, Boston paying one-half.

The whole length of the iron fence on each side of the bridge has been painted. The iron work outside the rail has been scraped and painted, and the house on the draw pier has been painted.

The West End Street Railway Company relaid their tracks on the bridge at the time the sheathing was done, putting in new rails where necessary. The sheathing between the rails and between the tracks was renewed with new plank, making a much better road than the old one. The West End Railway Company has always promptly responded to all requests for needed repairs or alterations.

Ordinary repairs on the bridge are made by the draw-tender and his assistants. They also clean the surface of the

bridge weekly, remove the snow from the sidewalk, and keep the electric light globes clean and in order.

Prison Point Bridge.

This bridge is in very bad condition. The draw, which is of the old-fashioned leaf pattern, is in such condition that it is almost impossible to raise it. It would require a considerable outlay to make it work easily, but we do not think it advisable to expend much money upon it, as it is expected that the Boston and Maine Railroad will begin the work of separating the grades of the road and railroad at this point next year and the plan for so doing provides for a new highway bridge over the channel. ✓

The draw-tender's house has been painted outside, the two chimneys retopped, and the bridge and draw have been sheathed. Ordinary small repairs have been made and sweeping done by the draw-tender and assistants.

West Boston Bridge.

This bridge is in the same condition as it was last year. By watching it closely and making the necessary repairs promptly it is kept in good condition for travel. It is a constant care. We hope the time is not far distant when the cities of Boston and Cambridge, with the co-operation of the projected elevated railroad company, will see their way clear to build a new bridge of stone and iron. ✓

The paving has been repaired on both sides of the roadway the entire length of the bridge. The roof of the engine-house has been stripped of the shingles that were badly decayed and a tin roof substituted, making it much safer against taking fire from sparks which are freely showered upon it from the smoke stacks of tugs while lying there. The engine-house, sheds and iron work have been painted.

The bridge has been swept once a week, always after midnight, and watered three times daily with salt water in dusty weather. Sweeping piers and draw, cleaning snow from draw piers and sidewalks, and ordinary repairs have been made by the draw-tender and his assistants. The draw has been sheathed when necessary.

The West End Street Railway Company relaid their tracks the whole length of the bridge, it being necessary to do so on account of the settling of the pavement, and the generally poor condition of the bridge.

IN GENERAL.

The usual statement is appended, showing the number of draw openings and the number of vessels which passed through, also the tables showing the traffic over bridges on September 29, 1897.

The amount of revenue received for rents, dockage, repairs to West End Street Railway Company's tracks, etc., during the year has been \$1,993.48 and one-half, \$996.74, has been paid to each city.

The following is a statement of the payments made by the City of Boston, on account of the Canal, Harvard, Prison Point and West Boston bridges, from February 1, 1897, to January 31, 1898:

Amount of appropriation for financial year, 1897-98 . . . \$14,000 00
 Transferred from the appropriation for Street Department,
 Central office . . . 403 92

Total appropriation . . . \$14,403 92

Amount expended to January 31, 1898 . . . \$14,403 92

Revenue February 1, 1897. — January 31, 1898.

DATE. 1897.	L. B. 3 and 4 Pages.	Received from.	Totals.	One-half City of Boston, City Collector.	One-half City of Cambridge.
1897 March 5.	476	West End St. Ry. Co.... Miller, Rent..... Shaw, Rent..... Bost. Adv't'g. Co., Rent. }	\$482 00	\$241 00	\$241 00
May 19. Sept. 2.	4, page 6	Wharfage..... Wharfage..... }	258 00	129 00	129 00
	36	West End St. Ry. Co.....	853 48	426 74	426 74
Jan. 8.	82	N. E. Tel. & Tel. Co.....	200 00	100 00	100 00
Jan. 27.	88	West End St. Ry. Co.....	200 00	100 00	100 00
		Totals.....	\$1,993 48	\$996 74	\$996 74

Statement of Expenses.

Feb. 1, 1897, to Jan. 31, 1898.	Canal or Craigie's Bridge.	Harvard Bridge.	Prison Point Bridge.	West Boston Bridge.	General Account.	Totals.
Salaries, draw-tenders and others	\$1,358 41	\$1,292 00	\$393 18	\$1,292 00	\$250 00	\$4,585 59
Rebuilding sidewalk and fence.....	2,374 76	.....	.....	.....	.....	2,374 76
Electric lighting	239 60	1,096 41	.....	431 25	.....	1,767 26
Sheathing roadways.....	.....	1,397 50	.....	.....	.....	1,397 50
General repairs.....	412 15	90 27	126 99	93 34	.....	722 75
Cleaning bridges	255 19	78 95	.....	245 00	.....	579 14
Inspection	180 00	160 00	110 00	72 50	.....	522 50
Lumber	261 18	89 44	97 58	44 05	.....	492 25
Paving	66 21	.....	.....	343 49	.....	409 70
Paint and painting	88 38	202 91	46 22	26 70	.....	364 21
Sundry small supplies....	92 18	104 46	18 12	27 10	.....	241 86
Watering roadways	118 75	.....	.....	118 75	.....	237 50
Fuel... ..	111 93	16 23	.....	96 06	.....	224 22
Electric current .....	.....	143 75	.....	.....	.....	143 75
Iron-work	49 39	3 60	42 73	28 55	.....	124 27
Travelling expenses .....	.....	.....	.....	.....	78 42	78 42
Tools and hardware	23 17	31 70	2 58	13 21	.....	70 66
Water rates, 1897.....	16 00	.....	5 50	11 00	.....	32 50
Printing and stationery ..	.....	.....	.....	.....	31 95	31 95
Electric repairs .....	.....	3 13	.....	.....	.....	3 13
Totals.....	\$5,647 30	\$4,710 35	\$842 90	\$2,843 00	\$360 37	\$14,403 92

Statement showing Traffic over Bridges.

DATE. 1897.	Bridge.	Teams.	Horses.	Bicycles.	Pedestrians.	Electric Cars.	Car Passen- gers.
Sept. 29, 6 A.M. to 7 P.M.	Canal.....	7,349	10,532	228	9,266	725	15,333
	Harvard	2,966	3,787	3,024	3,095	798	20,230
	Prison Point.....	2,590	4,003	140	2,567	.....	.....
	West Boston.....	3,689	5,011	395	9,506	1,058	21,286
	Totals.....	16,594	23,333	3,787	24,434	2,581	56,849

Number of times the draws in Canal, Harvard, Prison Point, and West Boston Bridges have been opened and the number of vessels which have passed through for the year beginning February 1, 1897, and ending January 31, 1898.

DATE.	CANAL OR CRAIGIE'S.		HARVARD.		PRISON POINT.		WEST BOSTON.	
	Number of Draw Openings.	Number of Vessels Passed Through.	Number of Draw Openings.	Number of Vessels Passed Through.	Number of Draw Openings.	Number of Vessels Passed Through.	Number of Draw Openings.	Number of Vessels Passed Through.
Feb. 1, 1897, to Jan. 31, 1898.								
February, 1897....	98	132	6	7	19	27	8	13
March	138	186	29	30	29	41	28	39
April	263	401	121	156	58	90	94	72
May	371	489	170	198	57	82	144	228
June	393	525	268	323	35	48	197	305
July	320	421	235	274	59	90	205	299
August	422	561	218	278	62	80	219	331
September	482	521	226	239	29	48	231	313
October	316	439	210	219	30	48	184	272
November	259	366	147	154	49	74	146	224
December	302	464	170	198	43	70	151	234
January, 1898	126	199	20	17	28	44	30	37
Totals.....	3,490	4,698	1,820	2,093	498	742	1,637	2,467

The following statement shows the work done by the various divisions :

SUMMARY OF WORK DONE.

BRIDGE DIVISION.

Overhauled and repaired the following bridges, viz. :

Beacon street (centre span), Blakemore street, Broadway, Chelsea bridge (North), Congress street, Essex street, Leyden street, Meridian street, Shawmut avenue, Warren and Western avenue.

A portion of Broadway bridge, 118 feet long by 30 feet wide, was entirely rebuilt.

Shawmut-avenue bridge was in poor condition, and the girders, cross-braces, roadway and iron-work were thoroughly overhauled, thus putting the bridge in good condition.

FERRY DIVISION.

The machinery and woodwork of six boats were thoroughly overhauled and painted, and two boats were thoroughly calked and metallled.

Four electric motors have been installed, thus equipping each landing with power to assist teams up the drops.

Three new boats have been equipped with electric lights, making five in all thus equipped.

The south pier, North Ferry, East Boston side, has been thoroughly repaired, and the landing at the South Ferry, East Boston side, has been raised, thus preventing flooding at high tide.

PAVING DIVISION.

Paved and regulated 37 streets with granite blocks, 21,759 square yards on concrete base, and 191,578 square yards on gravel base, or a total of about 213,337 square yards.

70,273 square yards gutters paved, 66,859 linear feet new edgestone set, and 176,508 linear feet reset, making a total of 243,367 linear feet set and reset.

Sidewalks laid and relaid as follows, viz. :

Brick, 89,900 square yards, new; and 47,065, old, relaid, or a total of 136,965 square yards.

Crushed stone, 35,247 square yards.

Artificial stone sidewalks, 127,389 square feet.

23,188 square yards asphalt have been laid on a concrete base.

Work has progressed on 21 streets laid out and ordered constructed under the "323" Act, and 13 of these streets have been finished.

SEWER DIVISION.

Built 30.5 miles of sewers, 412 new catch-basins, flushed 178 miles of sewers, removed 806 cubic yards of sewage deposit from sewers, and 1,008 cubic yards of sludge from pumping-station, and cleaned 6,655 catch-basins.

There are now about 475 miles of sewers maintained by this division.

SANITARY DIVISION.

Collected and removed 353,725 loads, of 54 cubic feet each, of house dirt, and 56,783 loads of offal.

STREET-CLEANING DIVISION.

Cleaned 13,261 miles of streets, removed 121,768 loads of street sweepings, etc., and emptied 29,064 public waste barrels.

STREET-WATERING DIVISION.

Watered 347.86 miles of streets.

EMPLOYMENT OF LABOR.

The report of the Civil Service Clerk follows, showing the classification of the employees of the department and the transfers and requisitions made for the several divisions of the Department.

During the year 118 applications were made upon the State Commission for 265 men of various grades and occupations; of this number 10 were for promotions and 18 were for the reinstatement of 37 men. 547 names were submitted, of which number 281 were selected and appointed, of whom 27 were chosen under the Veterans' Preference Act of 1896, and 34 provisional appointments were made under Civil Service Rule No. 36. Of the 10 applications made for promotions 9 were granted, 1 failing to pass the examination, and on the 18 requests for the reinstatement of 37 employees, 35 were granted and 2 rejected.

During the year 227 transfers were made, which the Commission approved, of which number 150 were from Transit, 27 from Water, 22 from Public Grounds, 16 from Park, 5 from Improved Sewerage, 3 from Mt. Hope Cemetery, 1 each from Health, Lamp and School Departments.

Notices of 128 discharges from the department rolls were forwarded to the Commission.

The department records show that there are now 3,384 persons eligible for employment in the several divisions and of that number 3,089 were upon the January, 1898, pay-rolls.

Grade and Number of Employees.

TITLE.	DIVISIONS.								Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Street Watering.	
Superintendent.....	1	.....	.....	.....	.....	.....	.....	.....	1
Deputies.....	1	1	1	1	1	1	1	7
Purchasing Agent.....	1	.....	.....	.....	.....	.....	.....	.....	1
Clerks.....	1	6	5	5	1	3	1	.....	22
Messengers.....	1	12	8	6	4	2	6	2	41
Civil Engineers.....	2	10	.....	.....	.....	.....	.....	12
Draughtsmen.....	24	.....	.....	.....	.....	.....	24
Transitmen.....	11	11	.....	.....	.....	.....	.....	22
Levelmen.....	4	12	.....	.....	.....	.....	.....	16
Rodmen.....	7	63	.....	.....	.....	.....	.....	70
Aids or tallymen.....	4	.....	3	2	.....	.....	.....	9
Inspectors.....	29	40	15	.....	.....	.....	.....	84
Foremen.....	10	9	7	7	1	1	.....	35
Sub-Foremen.....	25	11	11	15	1	1	.....	64
Superintendent of Street Patrol.....	1	.....	.....	.....	1
Blacksmiths and assistants....	19	3	7	4	2	.....	.....	35
Boiler-makers.....	1	.....	.....	1
Bracers and assistants.....	22	.....	.....	.....	.....	.....	22
Boys.....	12	19	.....	15	.....	7	1	54
Broom-makers.....	4	.....	.....	.....	4
Bridge-cleaners.....	1	.....	1
Captains.....	1	.....	11	.....	.....	12
Carpenters and assistants....	25	10	.....	3	5	9	.....	52
Caulkers.....	1	.....	1
Cement-testers.....	4	.....	.....	.....	.....	.....	4
Coal-passers.....	4	.....	.....	.....	.....	.....	4
Chief of draws and bridges....	1	.....	1
Chief drawtender.....	1	.....	1
Drawtenders.....	20	.....	20
Assistant drawtenders.....	36	.....	36
Deck hands.....	24	.....	.....	24
<i>Carried forward.....</i>	4	167	256	56	57	51	86	4	681

Grade and Number of Employees. — *Continued.*

TITLE.	DIVISIONS.								Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Street Watering.	
<i>Brought forward.</i>	4	167	256	56	57	51	86	4	681
Dumpers				25	7				32
Chief engineer (steam)			1						1
Engineers and assistants.....		18	35			11	16		80
Feeders				5	2				7
Firemen.....			9			21			30
Gate-men.....			4			12			16
Harness makers and assistants.....		2		5					7
Horseshoers.....				5					5
Hostlers.....			2				2		4
Iron-workers.....			2						2
Janitors						9			9
Janitresses						5			5
Joiners.....						4			4
Laborers and helpers.....		542	542	179	59	6			1,328
Lamplighters						2			2
Ledgemen.....			86						86
Locksmen.....			5						5
Machinists			2			3			5
Masons (stone and brick)			43						43
Mate.....			1						1
Measurers.....		1					1		2
Oilers.....			8			4			12
Pavers and assistants.....		38							38
Painters.....				10		1	7		18
Pilots			1			11			12
Pipe-layers.....			4						4
Powdermen.....		3							3
Riggers			2						2
Scowmen.....				4					4
Sheet-plank drivers.....			2						2
<i>Carried forward.</i>	4	771	1,005	289	125	140	112	4	2,450

Grade and Number of Employees. — *Concluded.*

TITLE.	DIVISIONS.								Total.
	Central Office.	Paving.	Sewer.	Sanitary.	Street Cleaning.	Ferry.	Bridge.	Street Watering.	
<i>Brought forward</i>	4	771	1,005	289	125	140	112	4	2,450
Steam drillers.....		9							9
Stenographers.....	1		1						2
Stonecutters.....		26	3						29
Store-keepers.....			2			1			3
Sweepers.....					168				168
Stablemen.....		11	3	9	4				27
Teamsters.....		69	8	173	64		2		316
Tollmen.....						11			11
Watchmen.....		13	9	5	2	8	3		40
Weighers.....		6	1						7
Wharfingers and assistants...		3	1						4
Wheelwrights.....				5					5
Yardmen.....		7		9	2				18
Total	5	15	1,033	490	365	160	117	4	3,089

Table Showing Transfers made from various City Departments to the Several Divisions.

DIVISIONS.	DEPARTMENTS.										Total.
	Transit.	Water.	Public Grounds.	Park.	Improved Sewerage.	Mt. Hope Cemetery.	Health.	Lamp.	Institution.	School.	
Paving.....	12	3	7	3	1	1			1	1	29
Sewer.....	128	10	8	8	4	2	1	1			162
Sanitary.....	5	4	3	1							13
Street Cleaning..	2	10	4	4							20
Ferry.....											0
Bridge.....	3										3
Street Watering..											0
Central Office....											0
Total	150	27	22	16	5	3	1	1	1	1	227

Table Showing the number of Applications for Various Grades of men made upon the Civil Service Commission for the Year ending January 31, 1898.

DIVISIONS.	Applications.	Number applied for.	Number submitted by C. S. C.	Number appointed.	Provisional appointment included in four previous columns.	Reinstatements included in four previous columns.	Veterans appointed included in four previous columns.
Paving	33	54	85	64	8	8	4
Sewer	46	154	260	158	25	14	11
Sanitary	13	14	148	15	.....	1	4
Street Cleaning	10	17	19	16	.....	11	3
Ferry	5	6	8	5	1	.....	2
Bridge	9	9	14	10	.....	3	3
Street Watering	1	10	12	12			
Central Office	1	1	1	1			
Total	118	265	547	281	34	37	27

Applications included nine, who were promoted. One applicant for promotion failed.

Eighteen requisitions cancelled, not included in above.

Eighteen applications for reinstatement; of thirty-seven men two refused by Civil Service Commission.

Twenty-seven veterans appointed; five were foremen, inspectors and sub-foremen, twenty-two mechanics and laborers.

The detailed financial statements, work done, etc., will be found in the Central Office Report and the nine appendices following :

Respectfully submitted,

BENJ. W. WELLS,

Superintendent of Streets.

CENTRAL OFFICE DIVISION.

EXPENSES OF THE CENTRAL OFFICE.

For the current expenses of the Central Office the City Council appropriated the sum of twenty thousand (20,000) dollars, which was expended as follows :

Salaries	\$15,148 85
General office expenditures	2,641 10
	<hr/>
Total	\$17,789 95

leaving a balance of twenty-two hundred ten dollars and five cents (\$2,210.05), which was transferred as follows, viz.:

To the Street Watering Division	\$1,599 43
“ “ Paving Division	206 70
“ “ Boston and Cambridge Bridges,	403 92
	<hr/>
	<u>\$2,210 05</u>

FINANCIAL STATEMENT OF THE STREET DEPARTMENT APPROPRIATION.

From February 1, 1897, to January 31, 1898.

MAINTENANCE.

APPROPRIATION.	Appropriations and transfers during 1897.	Revenue.	Total Credits.	Expenditures for the 12 months ending January 31, 1898.	Balances January 31, 1898.
Street Department:					
Central Office.....	1 \$17,780 95	.....	\$17,780 95	\$17,780 95	
Bridge Division.....	2 125,646 79	.....	126,529 32	126,529 32	
Boston and Cambridge Bridges	3 14,403 92	\$82 53	14,403 92	14,403 92	
Ferry Division.....	4 219,983 24	.....	219,983 24	219,983 24	
Paving Division.....	5 680,910 54	276 80	680,187 34	680,187 34	
Sanitary Division.....	6 492,670 56	.....	492,670 56	492,670 56	
Sewer Division.....	7 295,292 58	229 67	295,522 25	295,522 25	
Street Cleaning Division.....	8 309,993 38	.....	309,993 38	309,993 38	
Street Watering Division.....	9 78,736 72	.....	78,736 72	78,736 72	
Totals	\$2,244,427 36	\$1,389 00	\$2,245,816 36	\$2,245,816 36	
1 Appropriation 1897-98	\$20,000 00	4 Appropriation 1897-98.....	\$220,000 00	7 Appropriation 1897-98.....	\$300,000 00
Transferred to Street Watering Division.....	\$1,509 43	Transferred to Paving Division.....	16 76	Work done for Corporations.....	229 67
Transferred to Boston and Cambridge Bridges.....	403 92		\$219,983 24	Transferred from "Surplus Revenue"	2,429 87
Transferred to Paving Division.....	206 70	5 Appropriation 1897-98.....	\$660,000 00	Transferred to Street Watering Division,	\$302,659 54
		Repaying for Corporations.....	276 80		7,137 29
		Revenue.....	\$29,680 46		\$295,522 25
		Transferred from Central Office.....	206 70	8 Appropriation 1897-98.....	\$310,000 00
		Transferred from Ferry Division.....	16 76	Transferred to Paving Division.....	6 62
		Transferred from Street Cleaning Division.....	6 62		\$309,993 38
2 Appropriation 1897-98	\$125,000 00		29,910 54	9 Appropriation 1897-98.....	\$70,000 00
Work done for Corporations.....	882 53			Transferred from Sewer Division.....	\$7,137 29
Transferred from "Surplus Revenue,"	646 79		\$690,187 34	Transferred from Central Office.....	1,599 43
					8,736 72
					\$78,736 72
3 Appropriation 1897-98	\$14,000 00	6 Appropriation 1897-98.....	\$460,000 00	Transferred from Surplus Revenue to	76,930 40
Transferred from Central Office.....	403 92	Transferred from "Surplus Revenue,"	32,670 56	pay water bills of 1897-1898	
			\$492,670 56		

Comparative Table showing Cost of Maintenance of the Street Department since Organization.

DIVISION.	1891-'92. (13 months.)	1892-'93.	1893-'94.	1894-'95.	1895-'96.	1896-'97.	1897-'98.
Central Office	¹ \$16,050 00	\$18,793 60	\$20,805 96	\$20,884 29	\$18,315 79	\$18,781 85	\$17,789 95
Bridge.....	128,010 63	128,954 37	133,159 24	130,137 21	119,716 00	119,963 55	126,529 32
Boston and Cambridge Bridges	11,866 42	11,079 76	11,493 16	11,986 85	12,537 33	13,835 54	14,403 92
Ferry .....	.....	.....	.....	.....	209,911 30	218,353 10	219,983 24
Paving	872,936 40	915,469 99	745,681 52	715,608 02	683,899 42	628,675 46	690,187 34
Sanitary.....	² 509,342 24	463,370 74	481,300 63	467,459 02	432,778 52	477,241 54	492,670 56
Sewer	446,222 69	560,608 19	373,517 38	304,133 40	280,596 07	276,615 25	295,522 25
Street Cleaning	³ 215,929 33	288,320 42	308,707 30	301,477 44	305,998 50	310,266 39	309,993 38
Street Watering.....	104,263 62	94,507 80	99,430 16	87,169 08	76,424 70	71,211 81	578,736 72
Totals	\$2,293,621 33	\$2,487,095 87	\$2,174,095 85	\$2,038,855 91	⁴ \$2,140,177 63	\$2,134,944 49	\$2,245,816 36

¹ Nine months only.² Includes street cleaning for four months to May 1, 1891.³ Nine months only, but includes expenditure for Street Police, May 1 to July 10, 1891 — \$464.41.⁴ For comparison, deduct Ferry Division, not before shown, making total — \$1,939,294.33.⁵ Not including water bills of \$76,930.72 not previously paid by Street Watering Division.

Bridge Division Specials.

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
Charles-river Bridge, draw	\$407 04	\$407 04	
Chelsea Bridge, North ¹	3,030 54	3,030 54	
Essex-street Bridge, reconstruction ...	1,530 57	1,530 57	
Gold-street Bridge.....	21,223 38	² 27,223 38	
Harvard-street Bridge.....	3,000 00	356 20	\$2,643 80
Leyden-street Bridge, reconstruction..	1,000 00	1,000 00	
Meridian-street Bridge.....	1,833 61	1,833 61	
Reconstruction of Bridges.....	13,500 00	1,884 62	11,615 38
Talbot-avenue Bridge.. ..	25,000 00	.....	25,000 00
Warren Bridge, reconstruction.....	2,000 00	2,000 00	
Totals.....	\$72,525 14	\$39,265 96	\$39,259 18

¹ Balance January 31, 1897, was \$5,030.54, of which \$2,000 was transferred to Warren Bridge, reconstruction, May 11, 1897.

² \$6,000 to be provided for.

Ferry Division Specials.

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
Electric lights for ferry-boats.....	\$8,000 00	\$5,862 88	\$2,137 12
New ferry landing (chapter 435, Acts of 1895).....	478,038 39	42,296 20	435,742 19
Totals.....	\$486,038 39	\$48,159 08	\$437,879 31

Paving Division Specials.

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
Abbotsford street.....	\$570 00	\$570 00	
Adams street, Ward 24	7,500 00	7,500 00	
Adelaide street, Ward 22	4,000 00	4,000 00	
Albany street, in front of Massachusetts Homœopathic Hospital.....	10,500 00	6,140 08	\$4,359 92
Appleton street.....	12,300 00	12,300 00	
<i>Carried forward</i>	\$35,870 00	\$31,510 08	\$4,359 92

Paving Division Specials. — *Concluded.*

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
<i>Brought forward</i>	\$35,870 00	\$31,510 08	\$4,359 92
Boylston street, Berkeley to Clarendon street.....	12,496 90	12,496 90	
Brooks street, Ward 25	35,000 00		35,000 00
Calumet street	324 00	324 00	
Cabot street, asphaltting	12,000 00	6,770 47	5,229 53
Carleton street.....	8,000 00	354 96	7,645 04
Centre street, Dorchester.....	7,132 90	7,132 90	
Centre street, Roxbury.....	5,000 00	5,000 00	
Centre street, Ward 23.....	10,000 00	10,000 00	
Charles street.....	19,935 39	19,935 39	
Commonwealth avenue.....	31,756 55	27,651 01	4,105 54
Congress and L streets.....	2,958 61	2,958 61	
Dudley street.....	34,043 75	33,804 75	1,139 00
Eleonor and Ridgemont streets	605 51		605 51
Endicott street.....	8,000 00		8,000 00
Franklin street, Ward 25	1,700 52	1,700 52	
Freeport street, retaining-wall	7,500 00	93 75	7,406 25
Lafayette avenue.....	2,000 00		2,000 00
Lamartine street, Ward 22.....	10,000 00	10,000 00	
Lincoln place.....	1,500 00	1,500 00	
McLellan street.....	1,699 56	1,699 56	
North Margin street	2,000 00	1,415 98	584 02
Quincy street, Ward 4	5,718 82	3,516 44	2,202 38
Rand street, Roxbury	3,600 00	1,995 45	1,604 55
State street.....	18,000 00	18,000 00	
Sydney street.....	7,063 60	5,560 54	1,503 06
Tremont street, Lenox street to Roxbury Crossing	17,024 45	17,024 45	
Unity street.....	5,000 00	2,651 94	2,348 06
Washington street, Dover street to Union Park street	20,000 00	20,000 00	
Washington street, Eliot street to Dover street.....	35,000 00	35,000 00	
Western avenue	10,000 00	10,000 00	
Wharf and Buildings, Chelsea street, East Boston.....	15,000 00	15,000 00	
Totals	\$386,830 56	\$303,097 70	\$83,732 86

Street Improvements.

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
Street Improvements, Ward 1.....	\$25,148 16	\$25,148 16	
Street Improvements, Ward 2.....	25,337 28	25,337 28	
Street Improvements, Ward 3.....	42,772 39	25,724 68	\$17,047 71
Street Improvements, Ward 4.....	40,473 67	27,052 54	13,421 13
Street Improvements, Ward 5.....	25,532 52	25,249 36	283 16
Street Improvements, Ward 6.....	27,598 81	27,327 31	271 50
Street Improvements, Ward 7.....	33,295 95	27,061 42	6,234 53
Street Improvements, Ward 8.....	28,389 29	21,529 98	6,859 31
Street Improvements, Ward 9.....	57,587 32	52,569 48	5,017 84
Street Improvements, Ward 10.....	27,075 01	26,892 60	182 41
Street Improvements, Ward 11.....	26,724 37	26,724 37	
Street Improvements, Ward 12.....	30,117 23	28,822 19	1,295 04
Street Improvements, Ward 13.....	38,146 28	34,948 77	3,197 51
Street Improvements, Ward 14.....	40,136 89	34,355 43	5,781 46
Street Improvements, Ward 15.....	40,511 29	29,590 78	10,920 51
Street Improvements, Ward 16.....	34,732 83	29,895 58	4,837 25
Street Improvements, Ward 17.....	25,000 00	25,000 00	
Street Improvements, Ward 18.....	33,371 57	32,276 44	1,095 13
Street Improvements, Ward 19.....	40,928 18	34,688 87	6,239 31
Street Improvements, Ward 20.....	25,000 00	25,000 00	
Street Improvements, Ward 21.....	29,573 41	29,573 41	
Street Improvements, Ward 22.....	26,691 37	26,691 37	
Street Improvements, Ward 23.....	25,000 00	25,000 00	
Street Improvements, Ward 24.....	25,000 00	25,000 00	
Street Improvements, Ward 25.....	41,137 53	41,137 53	
Totals.....	\$815,281 35	\$732,597 55	\$82,683 80

Laying-out and Construction of Highways.*Expenditures.*

Sewer construction	¹ \$196,199 39
Street construction	² 261,124 44
Totals	<u>\$457,323 83</u>

¹ Includes \$5,051.46 expended on Blue Hill and other Avenues.² Includes \$82,746.91 expended on Blue Hill and other Avenues.

Sewer Division Specials.

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
Canal-street Relief.....	\$17,462 03	\$17,462 03	-
Connections with Metropolitan Sewer, Charlestown	20,630 36	20,630 36	
Connections with Metropolitan Sewer, East Boston.....	19,125 67	19,125 67	
Dam from Maverick street to Prescott street, East Boston.....	3,000 00	.....	\$3,000 00
D-street Outlet and Relief Sewer, Dorchester avenue, South Boston	23,000 00	23,000 00	
Forest-avenue Section, Temporary Sewer, Outlet, etc.	1,314 94	1,314 94	
Pumping Station, Improvements	4,982 25	4,982 25	
Sewer Outlet, Low Level, West Roxbury District.....	3,181 07	3,181 07	
Sewers, South Boston	794 71	794 71	
Sewer Outlets, South Boston	16,104 92	16,104 92	
Shamrock-street Outlet.....	7,041 95	7,041 95	
Storm Sewer, Cornwall and Washington streets, Ward 22.....	596 48	596 48	
Stony Brook, Improvement	401,849 26	260,741 16	141,108 10
Sewerage Works.....	500,000 00	464,830 00	35,170 00
Totals.....	\$1,019,083 64	\$839,805 54	\$179,278 10

Blue Hill and other Avenues.*Expenditures. (See Note.)*

OBJECT OF APPROPRIATION.	Street Construction.	Sewer Construction.	Totals.
Blue Hill avenue	\$83,778 87	\$3,652 06	\$87,430 93
Columbus avenue.....	49,893 31	13,209 54	63,102 85
Commonwealth avenue.....	6,835 58	24,368 62	31,204 20
Huntington avenue.....	17,566 71	4,674 46	22,241 17
Totals.....	\$158,074 47	\$45,904 68	\$203,979 15

NOTE.—These expenditures include \$82,746.91 for Street Construction and \$5,051.46 for Sewer Construction on Blue Hill and other Avenues, and paid out of the appropriation for Laying-Out and Construction of Highways.

South Union Station.*Expenditures.*

Sewer construction	.	.	.	.	.	\$87,984 59
Street construction	.	.	.	.	.	6,885 28
						<u>\$94,869 87</u>

**Recapitulation of Expenditures for the Twelve Months ending
January 31, 1898.**

OBJECT OF APPROPRIATION.	Current Expenses for the twelve months ending Jan. 31, 1898.	Special Appropriations.	Totals.
Street Department:			
Central Office	\$17,789 95		\$17,789 95
Bridge Division	126,529 32	\$39,265 96	165,795 28
Boston and Cambridge Bridges....	14,403 92		14,403 92
Ferry Division	219,983 24	48,159 08	268,142 32
Paving Division.....	690,187 34	303,097 70	993,285 04
Sanitary Division.....	492,670 56		492,670 56
Sewer Division	295,522 25	839,805 54	1,135,327 79
Street Cleaning Division	309,993 38		309,993 38
Street Watering Division.....	178,736 52		78,736 52
Street Improvements.....		732,597 55	732,597 55
Laying-Out and Construction of Highways.....		457,323 83	457,323 83
Blue Hill and other Avenues.....		116,180 78	116,180 78
South Union Station.....		94,869 87	94,869 87
Totals	\$2,245,816 36	\$2,631,300 31	\$4,877,116 99

¹Not including water bills of \$76,930.40 not previously paid by the Street Watering Division.

**Street Building under Chapter 323 of the Acts of 1891, or
Special Acts or Amendments thereto.**

STREET.	Paving.	Sewer.	Total.
Abbotsford st.	\$151 11	.....	\$151 11
Athelwold st.	7,059 79	\$4,305 55	11,365 34
Audubon road	290 69	.....	290 69
Bay State road	2 50	.....	2 50
Bearse st.	5 50	.....	5 50
Belmore terrace	19 75	523 91	543 66
Belvidere st.	155 67	.....	155 67
Bernard st.	115 00	6,741 18	6,856 18
Bloomfield st.	5,460 80	1,089 28	6,550 08
Boylston st.	14,379 86	85 75	14,465 61
Brighton ave.	1,806 19	.....	1,806 19
Bryant st.	4 00	.....	4 00
Burt st.	18 75	8,634 30	8,653 05
Chamberlain st.	3,036 92	23 27	3,060 19
Chamblet st.	10 75	1,126 05	1,136 80
Clinton st.	18 00	19 27	37 27
Columbia road	19,134 96	2,392 53	21,527 49
Elizabeth st.	22 25	6,468 94	6,491 19
Ellet st.	2,896 38	567 25	3,463 63
Engineering expense	239 82	.....	239 82
Fairmount st.	2,611 02	5,955 74	8,566 76
Fenelon st.	181 87	16 99	198 86
Fullerton st.	4,466 48	2,728 72	7,195 20
Gaylord st.	2,492 74	22 20	2,514 94
Geneva ave.	13,139 89	200 97	13,340 86
Granby st.	120 00	.....	120 00
Greenbrier st., between Bowdoin and Bloomfield streets	130 00	.....	130 00
Greenbrier st., between Park and Bloomfield sts..	5,305 37	366 44	5,671 81
Harvard st.	40 00	.....	40 00
Ipswich st.	21,122 90	491 43	21,614 33
Lauriat ave.	7,619 81	625 00	8,244 81
Leroy st.	30 50	1,299 00	1,329 50
Malvern st.	9 00	461 69	470 69
Medway st.	9 00	.....	9 00
Morse st.	98 40	10 23	108 63
<i>Carried forward</i>	\$112,145 67	\$44,155 69	\$156,301 36

**Street Building under Chapter 323 of the Acts of 1891, or
Special Acts or Amendments thereto.—Concluded.**

STREET.	Paving.	Sewer.	Total.
<i>Brought forward</i>	\$112,145 67	\$44,155 69	\$156,301 36
Norway st.	6,054 06	.....	6,054 06
Oakley st. ....	.....	807 51	807 51
Peterborough st.	25,882 33	18,209 50	44,091 83
Peverell st.	469 12	.....	469 12
Queensberry st.	18,029 00	.....	18,029 00
Rosseter st.	5 00	1,584 23	1,589 23
Ruggles st.	1,002 34	4,326 67	5,329 01
St. Alphonsus st.	346 00	.....	346 00
St. Stephen st.	1,167 17	.....	1,167 17
Tonawanda st.	2,137 59	2,871 79	5,009 38
Turner st.	6,334 02	.....	6,334 02
Vancouver st.	571 60	2,959 52	3,531 12
Vose st.	5 50	.....	5 50
Waterlow st.	5 00	.....	5 00
Wilder st.	341 82	33 15	374 97
Wolcott st.	3,881 31	62 26	3,943 57
Parker, Turner and Norway sts. ....	.....	10,343 79	10,343 79
Total	\$178,377 53	\$85,354 11	\$263,731 64
Blue Hill ave.	37,804 17	68 27	37,872 44
Columbus ave.	37,867 15	1,564 95	39,432 10
Commonwealth ave.	1,083 80	3,204 91	4,288 71
Huntington ave.	5,991 79	213 33	6,205 12
Grand total	\$261,124 44	\$90,405 57	\$351,530 01

**List of Contracts from February 1, 1897, to January 31, 1898,
made by the Street Department.**

Paving-Blocks.

CONTRACT.	Awarded to	Dated	Price per M. deliv- ered on wharves.
Large Paving-Blocks, 300,000 ...	Rockport Granite Co...	Feb. 24, 1897	\$44 90
Large Paving-blocks, 100,000 ...	Rockport Granite Co...	Sept. 13, 1897 ...	50 00
Large Paving-blocks, 100,000 ...	Cape Ann Granite Co...	Sept. 13, 1897 ...	50 00
Large Paving-blocks, 100,000 ...	Pigeon Hill Granite Co.	Sept. 13, 1897 ...	50 00
Gutter Paving-blocks, 200,000...	Rockport Granite Co...	Sept. 13, 1897 ...	37 00

Spruce Lumber.

DISTRICT.	Awarded to	Dated	Price per M. ft. B. M.	Price for Planing per M. ft.
South Boston.....	A. M. Stetson & Co.	March 5, 1897.	\$14 70	\$1 00
East Boston.....	Jewett Lumber Co.....	Feb. 24, 1897..	15 50	0 50
Charlestown	Curtis & Pope Lumber Co.,	March 5, 1897.	15 50	0 95
Brighton	Curtis & Pope Lumber Co.,	March 5, 1897.	15 00	0 95
West Roxbury...	Curtis & Pope Lumber Co.,	March 5, 1897.	15 90	0 95
Dorchester	Curtis & Pope Lumber Co.,	March 5, 1897.	15 50	0 95
Roxbury	Curtis & Pope Lumber Co.,	March 5, 1897.	15 20	0 95
City Proper	Curtis & Pope Lumber Co.,	March 5, 1897.	14 95	0 95

Beach Gravel.

DISTRICT.	Awarded to	Dated	Price per ton deliv- ered on wharves.
City Wharves.....	William T. Cargill	March 19, 1897..	\$0 55 $\frac{1}{2}$

Iron Castings.

CONTRACT.	Awarded to	Dated	Price per 100 lbs.
Iron castings.....	Osgood & Hart.....	May 7, 1897	\$1 25

Coal.

CONTRACT.	Awarded to	Dated	Price per ton, 2,240 lbs.
1,500 tons, Pumping Station, Dorchester	L. G. Burnham & Co.	Feb. 5, 1897....	\$3 16
3,000 tons, Pumping Station, Dorchester	G. M. Winslow & Co.	April 27, 1897...	2 67
800 tons, Pumping Station, Dor- chester	Loyal Hanna Coal and Coke Com- pany	Dec. 30, 1897....	2 95
6,000 tons, Ferry Wharves.....	John Morrison.....	March 23, 1897..	2 72
2,000 tons, Ferry Wharves.....	Loyal Hanna Coal and Coke Com- pany	Jan. 27, 1898....	2 65

Bank Gravel and Sand.

DISTRICT.	Awarded to	Dated	PRICE.			
			Gravel.		Sand.	
			A.	B.	A.	B.
South Boston	P. O'Riorden...	March 23, 1897..	\$1 43	\$0 73	\$1 43	\$0 73
Charlestown	P. O'Riorden...	March 23, 1897..	1 70	0 80	1 50	0 80
City Proper.....	P. O'Riorden...	March 23, 1897..	1 37	0 75	1 58	0 70
East Boston.....	L. F. Leary....	March 20, 1897..	1 40	0 69	1 40	0 69
Brighton	W. Scollans	March 23, 1897..	1 59	0 79½	1 59	0 79½
West Roxbury....	J. Doonan	March 20, 1897..	0 89	0 45	0 89	0 45
Dorchester	J. J. Nawn.....	March 20, 1897..	1 25	0 60	1 50	0 70
Dorchester	J. McGovern...	May 25, 1897....	1 43	0 72	1 43	0 72
Roxbury	O. Nawn	March 20, 1897..	1 25	0 55	1 40	0 60

EXPLANATION OF LETTERS: A, double loads; B, single loads.

Crosswalk Flagging.

CONTRACT.	Awarded to	Dated	PRICE PER SQ. FT.	
			On wharves.	On streets.
North River	J. J. Cuddihy.....	March 19, 1897..	\$0 28	\$0 31½
Granite	Rockport Granite Co...	March 19, 1897..	0 28 ⁹ / ₁₆	

Lease of Land.

CONTRACT.	Lessor	Dated	Price.
Flats and docks, Public Landing, East Boston..	East Boston Dry Dock Co.....	July 10, 1897...	\$250 00 per year, pay- able quarterly.

Lease of Ledge Lots, Quarrying Stone, etc.

CONTRACT.	Lessor	Dated	Terms.
Lease of ledge lot, Kenney st., near Day st. ¹	J. W. Kenney.....	March 12, 1895.....	\$0.15 per ton
Lease of ledge lot, Rosseter st. ²	W. T. Emerson.....	March 12, 1895.....	0.25 per ton
Lease of ledge lot, Heath st., near Day st. ³	F. Bleiler.....	March 30, 1896.....	0.20 per ton
Lease of ledge lot, Centre st., between Allandale and Walter sts. ⁴	John M. Minton.....	August 1, 1896.....	0.18 per ton
Quarrying, cutting and delivering stone from Chestnut Hill-ave. ledge.....	M. Kiernan.....	May 28, 1897.....	0.70 per ton
Furnishing stone to Codman-st. crusher.....	James A. King.....	June 19, 1897.....	0.80 per ton
Quarrying, cutting and delivering stone from Centre-st. ledge.....	T. F. Minton.....	August 2, 1897.....	0.70 per ton
Quarrying, cutting and delivering stone from Rosseter-st. ledge.....	P. F. Lonergan.....	September 13, 1897.....	0.70 per ton

¹ Extended February 1, 1896, for three years.

² Extended February 1, 1896, for two years.

³ Extended January 30, 1897, for one year.

⁴ Extended January 30, 1897, for three years.

Collecting and Removing Ashes.

CONTRACT.	Awarded to	Dated	Price.
Collecting and removing ashes, etc., Dorchester District.....	Denis Flynn	April 10, 1897	\$3,850 per year for two years.
Collecting and removing ashes, etc., West Roxbury District.....	John J. Moore	April 10, 1897	\$2,100 per year for two years.

Collecting and Removing House Offal.

CONTRACT.	Awarded to	Dated	Price.
Collecting and removing house offal in the Dorchester District.....	J. Bradley.....	May 11, 1897.....	\$4,980 per year for three years.

Abutments, Retaining Walls and Bridge Strengthening.

CONTRACT.	Awarded to	Dated	Price.
Rebuilding sidewalk and fence, Canal bridge.....	W. H. Ryan & Co.....	May 3, 1897.....	(A) \$39 75 (B) 45 47 (C) 33 00 (D) 0 74 (E) 0 22 (F) \$11 00 (G) 0 52 (H) 39 00 (I) 0 39
Sheathing roadway of Harvard bridge.....	Joseph Ross.....	October 15, 1897..	1 \$2,755 00
Building retaining walls, abutments and piers on Ipswich st.....	Holbrook, Cabot & Daly....	November 29, 1897.	Retaining wall east of the Fens, \$4,730—remainder of the work, \$31,100
Retaining wall for Stony Brook bridge on Hyde Park ave....	William Hennessey.....	November 18, 1897.	\$470
Building Talbot-ave. bridge.....	New England Railroad Co...	October 13, 1897...	A sum not exceeding \$25,000
Retaining-wall along Blue Hill ave., between Seaver and Canterbury sts.....	Metropolitan Construction Company.....	July 8, 1897.....	\$8,487.00.
Retaining-wall along Covington st., between Thomas park and East Eighth st.....	T. F. Broderick.....	August 3, 1897.....	\$880.00.
Retaining-wall along Freeport st. at the Dorchester Yacht Club.....	Collins & Ham.....	December 9, 1897.	\$5,950.00.

Retaining-wall on Blue Hill ave. in front of the
Holbrook estate.....
Building retaining-wall, Columbus ave., near Rox-
bury crossing.....

E. Bertram Newton.....

September 15, 1897

\$500.00.

William Hennessey.....

November 10, 1897

\$665.00.

EXPLANATION OF LETTERS.

(A) For each 1,000 ft. B. M. H. P. bulkhead stringers and curb timber in place. (B) For each 1,000 ft. B. M. 6 in. H. P. roadway floor in place. (C) For each 1,000 ft. B. M. 3 in. H. P. sidewalk floor in place. (D) For each lineal foot of hard-pine fence in place. (E) For each lineal foot of edgestone rest. (F) For each 1,000 hard-burned paving-brick delivered. (G) For each square yard of brick paving laid. (H) For each 1,000 new granite blocks delivered. (I) For each square yard of block-stone paving laid.

¹One-half cost to be paid by the City of Cambridge.

¹ Artificial Stone Sidewalks.

CONTRACTOR.	Dated	Price.
Aberthaw Construction Company.....	May 6, 1897.....	6 cts. per square foot.
T. J. Hind.....	May 6, 1897.....	6 cts. per square foot.
P. F. Lonergan.....	May 6, 1897.....	6 cts. per square foot.
W. A. Murtfeldt Company.....	May 6, 1897.....	6 cts. per square foot.
H. P. Nawn.....	Sept. 2, 1897.....	6 cts. per square foot.
Simpson Bros. Corporation.....	May 6, 1897.....	6 cts. per square foot.
M. F. Sullivan.....	Dec. 3, 1897.....	6 cts. per square foot.
J. Uffell & Co.....	May 6, 1897.....	6 cts. per square foot.

¹ These walks were laid on various accepted streets where the Contractor had agreements with the abutters.

Paving with Trinidad Asphalt.

CONTRACT.	Awarded to	Dated	Price.
Cabot st., between Vernon and Linden Park sts...	Barber Asphalt Paving Co...	July 23, 1897.....	(A) \$3.00 per square yard.
Wiget st., between Salem and North Margu sts...	Barber Asphalt Paving Co...	July 23, 1897.....	(A) \$3.00 per square yard.
Lincoln pl., between Springfield and Worcester sts.....	Barber Asphalt Paving Co...	August 10, 1897....	(A) \$3.00 per square yard.
Boylston st., from Berkeley beyond Clarendon st.,	Barber Asphalt Paving Co...	August 30, 1897....	(A) \$3.00 per square yard.
Unity st., between Charter and Thacher sts.....	Barber Asphalt Paving Co...	September 8, 1897..	(A) \$3.00 per square yard.
Rutherford ave. and Devenus st., around St. John's Episcopal Church.....	Barber Asphalt Paving Co...	September 20, 1897	(A) \$3.00 per square yard.
Tufts, Vine, Corey and Moulton sts., around St. Catherine's Catholic Church.....	Barber Asphalt Paving Co...	September 20, 1897	(A) \$3.00 per square yard.
La Grange st., between Police Station 4 and Tremont st.....	Barber Asphalt Paving Co.	September 20, 1897	(A) \$3.00 per square yard.
Cooper st., between Endicott and Charlestown sts.,	Barber Asphalt Paving Co...	September 25, 1897	(B) \$2.25 per square yard.

(A) Furnishing 6-in. American cement concrete base, wearing surface and binder. (B) Furnishing asphalt wearing surface and binder on existing concrete base.

Paving with Sicilian Rock Asphalt.

Bradford st., between Waltham st. and Shawmut ave.....	Boston Asphalt Company ...	July 23, 1897.....	(A) \$3.00 per square yard.
Broadway, in front of Lincoln School	Boston Asphalt Company ...	August 30, 1897...	(A) \$3.00 per square yard.
Mayo st., between Castle and Cobb sts.....	Boston Asphalt Company ...	August 30, 1897....	(A) \$3.00 per square yard.
Cobb st., between Washington st. and Shawmut ave.....	Boston Asphalt Company ...	August 30, 1897....	(A) \$3.00 per square yard.

Exeter pl., between Chauncey st. and Harrison ave.....	Boston Asphalt Company ...	August 30, 1897...	(A) \$3.00 per square yard.
Avery and Mason sts.....	Boston Asphalt Company ...	September 6, 1897.	(B) \$3.25 per square yard.
Broadway, between 113 ft. west of F st., to 308 ft. east of F st.....	Boston Asphalt Company ...	October 1, 1897.....	(C) \$3.37½ per square yard.
Albany st., between Stoughton and East Concord sts.....	Boston Asphalt Company ...	October 30, 1897...	(C) \$3.37½ per square yard. (D) \$2.25 per square yard.
North Margin st., from Thacher towards Endicott st.....	Boston Asphalt Company ...	November 15, 1897	(E) \$3.12½ per square yard.

(A) Furnishing a 6-in. American cement concrete base and wearing surface. (B) Furnishing a 6-in. Portland cement concrete base and wearing surface. (C) Excavating for and furnishing a 6-in. Portland cement concrete base and wearing surface. (D) Furnishing asphalt wearing surface on existing concrete base. (E) Furnishing a 6-in. Portland cement concrete base and wearing surface.

Paving with Seyssel Rock Asphalt.

CONTRACT.	Awarded to	Dated	Price.
Pelham st., between Washington st. and Shawmut ave.....	Jones & Meehan.....	August 30, 1897...	(A) \$3.00 per square yard.
Paul st., between Tremont and Emerald sts.....	Jones & Meehan.....	August 30, 1897...	(A) \$3.00 per square yard.
Waterford st., between Washington st. and Shawmut ave.....	Jones & Meehan.....	October 26, 1897...	(A) \$3.00 per square yard.

(A) Furnishing 6-in. American cement concrete base and wearing surface.

Paving with Asphaltina.

Massachusetts ave., easterly side, between Tremont st. and Columbus ave.....	Boston Paving Company.....	September 14, 1897	(A) \$2.75 per square yard.
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(A) Furnishing a 6-in. American cement concrete base, wearing surface and binder.

Paving and Regulating.

CONTRACT.	Awarded to	Dated	Price.
Tremont st., between Columbus ave. and Ruggles st., paving with granite blocks on a gravel base, and regulating.....	Jones & Meehan.....	April 7, 1897.....	(F) \$0.25 per sq. yd.; (D) \$0.08 per lin. ft.; (E) \$0.18 per sq. yd.; (G) \$0.36 per sq. yd.
Washington st., between Kneeland st. and the B. & A. R.R. bridge, paving with granite blocks, pitch joints on a concrete base, and regulating..	William Higgins.....	June 12, 1897.....	(B) \$5.00 per cu. yd.; (C) \$0.90 per sq. yd.; (D) \$0.08 per lin. ft.; (E) \$0.18 per sq. yd.; (F) \$0.25 per sq. yd.
Washington st., between the B. & A. R.R. bridge and Dover st., paving with granite blocks, pitch joints on a concrete base, and regulating.....	Jones & Meehan.....	June 12, 1897.....	(B) \$5.00 per cu. yd.; (C) \$0.90 per sq. yd.; (D) \$0.08 per lin. ft.; (E) \$0.18 per sq. yd.; (F) \$0.25 per sq. yd.
State st., between Washington and Commercial sts., paving with granite blocks, pitch joints on a concrete base, and regulating.....	H. Gore & Co.....	June 12, 1897.....	(C) \$0.90 per sq. yd.; (D) \$0.08 per lin. ft.; (E) \$0.18 per sq. yd.; (F) \$0.25 per sq. yd.
Broadway, between E st. and the N. E. R.R., paving with granite blocks on a gravel base, and regulating, Sicilian rock asphalt gutters on a concrete base.....	H. Gore & Co.....	July 8, 1897.....	(F) \$0.25 per sq. yd.; (D) \$0.08 per lin. ft.; (E) \$0.18 per sq. yd.; (H) \$3.00 per sq. yd.
Main st., from Miller st., across Hancock sq., paving with granite blocks on a gravel base, and regulating.....	John Turner & Co.....	July 3, 1897.....	(A) \$0.15 per sq. yd.; (F) \$0.25 per sq. yd.; (D) \$0.15 per lin. ft.; (B) \$0.08 per lin. ft.; (E) \$0.18 per sq. yd.; (H) \$0.25 per sq. yd.
Washington st., between Dover and Waltham sts., paving with granite blocks, pitch joints on a gravel or concrete base, and regulating.....	Jones & Meehan.....	August 21, 1897...	(D) \$0.08 per lin. ft.; (B) \$5.00 per cu. yd.; (C) \$0.90 per sq. yd.; (E) \$0.18 per sq. yd.
Charles st., between Cambridge and Levevett sts., paving with granite blocks, pitch joints on a gravel base, and regulating.....	Dennis J. Kiley.....	August 25, 1897...	(D) \$0.08 per lin. ft.; (C) \$0.90 per sq. yd.; (E) \$0.18 per sq. yd.; (F) \$0.25 per sq. yd.
Congress st., between State st. and Exchange pl., paving with granite blocks, pitch joints on a concrete base, and regulating.....	H. Gore & Co.....	October 1, 1897...	(D) \$0.15 per lin. ft.; (C) \$0.90 per sq. yd.; (F) \$0.25 per sq. yd.; (E) \$0.23 per sq. yd.

Winthrop sq., paving with granite blocks, pitch joints on a concrete base.....	H. Gore & Co.....	September 23, 1897	(C) \$0.90 per sq. yd.
Dudley st., between Brook ave. and the N. E. R. R. crossing, paving with granite blocks on a gravel base, and regulating.....	Thomas M. Gill.....	October 11, 1897...	(D) \$0.08 per lin. ft.; (F) \$0.25 per sq. yd.; (E) \$0.18 per sq. yd.
Dudley st., between N. E. R. R. crossing and Upham's Corner, paving with granite blocks on a gravel base, and regulating.....	Doherty & Connors.....	September 15, 1897	(D) \$0.08 per lin. ft.; (F) \$0.25 per sq. yd.; (E) \$0.18 per sq. yd.
Appleton st., between Tremont and Berkeley sts., paving with granite blocks, pitch joints on a gravel base and regulating.....	Jones & Meahan.....	October 1, 1897.....	(D) \$0.08 per lin. ft. (C) \$0.90 per sq. yd. (E) \$0.18 per sq. yd.
Lamartine street, between Centre and Hoffman sts., paving with granite blocks on a gravel base and regulating.....	Jones & Meahan.....	October 1, 1897.....	(D) \$0.08 per lin. ft. (F) \$0.25 per sq. yd. (E) \$0.18 per sq. yd.

EXPLANATION OF LETTERS.

(A) Barring up and loading pavement. (B) Furnishing and laying a 6-in. American cement concrete base. (C) Laying granite block paving and flagging crosswalks and pitching joints. (D) Resetting edgework. (E) Relaying brick sidewalks. (F) Relaying brick sidewalks, including excavation. (G) Relaying brick sidewalks, including excavation. (H) Furnishing and laying Sicilian Rock Asphalt wearing-surface and concrete base gutters.

Furnishing Filling.

CONTRACT.	Awarded to	Dated	Price.
Queensberry and Ipswich sts.	Boston and Albany R.R. Co.	September 7, 1897.	\$0.51 per cu. yd. bank measurement.
Columbia road between Mt. Vernon and Burnham sts.	Jeremiah J. Sullivan.....	January 7, 1898 ..	\$0.37 per cu. yd. bank measurement.

Furnishing and Laying Concrete Base.

CONTRACT.	Awarded to	Dated	Price.
State st., between Washington and Commercial sts.....	Metropolitan Construction Company.....	June 12, 1897.....	(A) \$4.75 per cu. yd.
Winthrop sq.	Metropolitan Construction Company.....	September 23, 1897.....	(A) \$4.75 per cu. yd. (B) \$0.22 per sq. yd.
Congress st., between State street and Exchange pl.	Metropolitan Construction Company.....	October 1, 1898....	(A) \$5.00 per cu. yd. (B) \$0.25 per sq. yd.

EXPLANATION OF LETTERS.

(A) Furnishing and laying a 6-inch American cement concrete base.

(B) Barring up and loading pavement, including excavation.

Street Construction, under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto.
Macadam Roads.

CONTRACT.	Awarded to	Dated	Price.
Athelwold st., between School and Kilton sts.....	Collins & Ham.....	July 16, 1897.....	(A) \$268.00; (B) \$0.31; (D) \$0.07; (E) \$0.58; (G) \$1.50; (H) \$0.27; (J) \$0.20; (L) \$4.50; (N) \$0.10; (P) \$3.00.
Chamberlain st., between Harvard and Algonquin sts.....	Collins & Ham.....	July 20, 1897.....	(A) \$0.07; (B) \$0.44; (D) \$0.08; (E) \$0.63; (H) \$0.19; (J) \$0.20; (L) \$4.25; (N) \$0.02; (P) \$3.00.
Wolcott st., between Columbia and Erie sts.....	Collins & Ham.....	July 20, 1897.	(A) \$0.01; (B) \$0.50; (D) \$0.14; (E) \$0.18; (H) \$0.44; (J) \$0.19; (L) \$4.50; (N) \$0.01; (P) \$3.00.
Ellet st., between Adams st. and Dorchester ave...	H. Gore & Co.	July 20, 1897.....	(A) \$0.00; (B) \$0.39; (D) \$0.19; (E) \$0.70; (H) \$0.21; (J) \$0.18; (L) \$4.25; (N) \$0.60; (P) \$3.00.

Gaylord st., between Washington and Chamberlain sts.....	Doherty & Connors.....	July 20, 1897.....	(A) \$12.00; (B) \$0.29; (D) \$0.19; (E) \$0.63; (H) \$0.23; (J) \$0.16; (L) \$4.50; (N) \$0.01; (P) \$3.00.
Fullerton st., between Brookline ave. and Fairhaven st.....	P. Doherty.....	July 23, 1897.....	(A) \$0.00; (B) \$0.30; (D) \$0.20; (E) \$0.59; (G) \$1.31; (H) \$0.21; (J) \$0.17; (L) \$4.50; (N) \$0.72; (P) \$3.00.
Norway st., between Massachusetts ave. and Parker st.....	Doherty & Connors.....	July 23, 1897.....	(A) \$0.00; (B) \$0.30; (D) \$0.20; (E) \$0.60; (G) \$1.21; (H) \$0.21; (J) \$0.18; (L) \$4.25; (N) \$0.73; (P) \$3.00.
Turner st., between Haviland and Astor sts.....	Doherty & Connors.....	July 23, 1897.....	(A) \$0.00; (B) \$0.31; (D) \$0.19; (E) \$0.61; (G) \$1.35; (H) \$0.21; (J) \$0.39; (L) \$4.27; (N) \$0.75; (P) \$3.00.
Greenbrier st., between Bloomfield and Park sts..	H. Gore & Co.	September 3, 1897	(A) \$0.01; (B) \$0.35; (D) \$0.18; (E) \$0.55; (H) \$0.19; (J) \$0.14; (L) \$3.75; (N) \$0.01; (P) \$3.00.
Bloomfield st., between Geneva ave. and Greenbrier st.....	Collins & Ham.....	September 3, 1897	(A) \$0.01; (B) \$0.32; (D) \$0.16; (E) \$0.56; (H) \$0.10; (J) \$0.25; (L) \$4.50; (N) \$0.01; (P) \$3.00.
Touawanda st., between Geneva ave. and Greenbrier st.....	P. Doherty.....	October 1, 1897....	(A) \$0.00; (B) \$0.25; (D) \$0.17; (E) \$0.50; (H) \$0.19; (J) \$0.14; (L) \$4.00; (N) \$0.01; (P) \$3.00.
Fairmount st., between Washington and Morton sts.....	J. McGovern.....	November 1, 1897	(A) \$25.00; (B) \$0.29; (D) \$0.17; (E) \$0.33; (H) \$0.18; (J) \$0.14; (L) \$4.00; (N) \$0.48; (P) \$3.00.
Bernard st., between Harvard st. and Talbot ave	J. A. Whittemore's Sons.....	November 22, 1897	(A) \$0.00; (B) \$0.25; (D) \$0.16; (E) \$0.35; (H) \$0.18; (J) \$0.12; (L) \$3.00; (N) \$0.60; (P) \$3.00.

EXPLANATION OF LETTERS.

(A) Removing trees, etc. (B) Earth excavation, per cubic yard. (D) Macadam hauled and placed, per square yard. (E) Granite block gutters hauled and laid, per square yard. (G) Circular edgestones set, per linear foot. (H) Straight edgestones hauled and set, per linear foot. (I) Brick sidewalks furnished and laid, per square yard. (J) Crushed stone sidewalks hauled and placed, per square yard. (L) Crosswalk flagging furnished and laid, per square yard. (N) Gravel furnished, per cubic yard. (P) Catch-basin and manhole covers reset to grade.

Street Construction, under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto.

Telford Macadam Roads.

CONTRACT.	Awarded to	Dated	Price.
Blue Hill ave., between Glenway and Canterbury sts.	Doherty & Connors.....	June 24, 1897.....	(A) \$75.00; (B) \$0.45; (D) \$0.20; (E) \$0.20; (F) \$0.57; (G) \$0.10; (H) \$0.25; (J) \$0.16; (K ¹) \$0.61; (L) \$0.30; (M) \$0.43; (N) \$3.00.
Columbus ave., between Ritchie street and W. Walnut pk.	Daniel E. Lynch.....	August 25, 1897...	(A) \$10; (B) \$0.28; (D) \$0.20; (E) \$0.13; (F) \$0.58; (H) \$0.021; (J) \$0.07; (K) \$4.50; (L) \$0.50; (N) \$3.00.
Columbia road, between Blue Hill ave. and Stanwood st.	H. P. Nawn.....	September 20, 1897	(A) \$50 (B) \$0.30; (C) \$1.20; (D) \$0.15; (E) \$0.15; (F) \$0.55; (G) \$0.10; (H) \$0.20; (J) \$0.15; (K) \$4.00; (L) \$0.10; (N) \$3.00.
Ruggles st., between Parker st., and the Back Bay Fens.....	Doherty & Connors.....	October 4, 1897...	(A) \$0.01; (B) \$0.25; (D) \$0.17; (E) \$0.15; (F) \$0.55; (H) \$0.21; (J) \$0.12; (K) \$4.15; (L) \$0.61; (N) \$3.00.
Vancouver st., between Huntington ave. and Ruggles st.	Doherty & Connors.....	October 4, 1897...	(A) \$0.01; (B) \$0.20; (D) \$0.16; (E) \$0.16; (F) \$0.55; (H) \$0.19; (J) \$0.14; (K) \$3.75; (L) \$0.65; (N) \$3.00.
Columbia road, between Stanwood st. and a point about 220 ft. north of Glendale street.....	H. P. Nawn.....	January 15, 1898..	(A) \$50.00; (B) \$0.21; (C) \$1.50; (D) \$0.15; (E) \$0.15; (F) \$0.55; (G) \$0.10; (H) \$0.20; (J) \$0.15; (K) \$4.00; (L) \$0.05; (N) \$3.00.

EXPLANATION OF LETTERS.

(A) Removing trees, etc. (B) Earth excavation, per cubic yard. (C) Rock excavation, per cubic yard. (D) Telford base hauled and placed, per square yard. (E) Macadam hauled and placed, per square yard. (F) Granite block gutters, hauled and laid, per square yard. (G) Loam, hauled and placed, per square yard. (H) Edgestone hauled and set, per linear foot. (J) Crushed stone for sidewalks, hauled and placed, per square yard. (K) Flagging crosswalks, furnished and laid, per square yard. (K¹) Flagging crosswalks, hauled and laid, per square yard. (L) Gravel furnished, per cubic yard. (M) Six-inch drain pipe, furnished and laid, per linear foot. (N) Catch-basin and manhole covers reset to grade.

Sewer Construction, under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto.

CONTRACT.	Awarded to	Dated	Price.
Culvert, sewer and surface-drain in Athelwold st..	J. P. O'Connell	March 18, 1897....	(1) \$1.50 per lin. ft. earth excavation for concrete culvert; (2) \$3.00 per cu. yd. rock excavation; (3) \$4.00 per cu. yd. American cement concrete; (4) \$5.00 per cu. yd. Portland cement concrete; (5) \$5.00 per cu. yd. brick masonry American cement mortar; (6) \$3.50 per cu. yd. rubble stone masonry; (8) \$0.50 per lin. ft. 15-in. pipe house sewer; (9) \$0.50 per lin. ft. 12-in. pipe house sewer; (10) \$0.40 per lin. ft. 6-in. pipe house drain; (11) \$0.35 per lin. ft. 18-in. pipe surface drain; (12) \$0.35 per lin. ft. 15-in. pipe surface drain; (13) \$0.35 per lin. ft. 12-in. pipe surface drain; (14) \$0.35 per lin. ft. 10-in. pipe surface drain; (15) \$30.00 each manhole; (16) \$40.00 each catch-basin; (17) \$13.00 each drop inlet; (18) \$50.00 per M. ft. B. M.; spruce lumber left in place.
Sewer and connections in Ellet st.	Quinby & Ferguson.....	April 8, 1897.....	(1) \$4.00 per cu. yd. rock excavation; (2) \$0.42 per lin. ft. 10-in. pipe house sewer; (3) \$0.42 per lin. ft. 6-in. pipe house drain; (4) \$0.40 per lin. ft. 10-in. pipe catch-basin drain; (5) \$1.50 each, pipe chimney; (6) \$37.00 each, catch-basin (7) \$0.60 each, 10 x 10-in. pipe, or 10 x 6-in. Y; (8) \$1.00 each 10-in. slant.
Sewers and drains in Parker, Turner and Norway sts.	J. P. O'Connell	April 27, 1897.....	(1) \$1.00 per lin. ft. earth excavation above grade; (2) \$0.60 per lin. ft. earth excavation below grade; (3) \$4.00 per cu. yd. brick masonry American cement mortar; (4) \$4.00 per cu. yd. brick masonry, Portland cement mortar; (5) \$3.80 per cu. yd. concrete; (6) \$25.00 per M. ft. B. M. spruce lumber left in place; (7) \$13.00 per M. ft. B. M. spruce lumber for sheet-pile driven; (9) \$0.55 per lin. ft. 18-in. pipe house sewer; (10) \$0.40 per lin. ft. 12-in. pipe house sewer; (11) \$0.35 per lin. ft. 10-in. pipe catch-basin drain; (12) \$0.20 per lin. ft. 8-in. pipe under-drain; (14) \$0.35 per lin. ft. 6-in. pipe house drain; (17) \$18.00 each, manhole; (18) \$20 each catch-basin.

Sewer Construction, under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto. — *Continued.*

CONTRACT.	Awarded to	Dated	Price.
Sewer in Leedsville st.....	D. E. Lynch.....	July 7, 1897.....	(1) \$0.10 per cu. yd. earth excavation below grade; (2) \$0.01 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (3) \$0.01 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (4) \$0.50 per lin. ft. 12-in. pipe house sewer; (5) \$0.15 per lin. ft. 6-in. pipe under-drain; (6) \$30.00 manholes, each; (7) \$10.00 pipe chimneys, each; (8) \$3.50 per cu. yd. rock excavation.
Sewers and drains in Bloomfield st., between Geneva ave. and Greenbrier st.	James Dolan.....	July 28, 1897.....	(1) \$0.17 per cu. yd. earth excavation below grade; (3) \$1.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (4) \$1.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (8) \$0.39 per lin. ft. 12-in. pipe house sewer; (9) \$0.27 per lin. ft. 12-in. pipe catch-basin drain; (10) \$0.27 per lin. ft. 10-in. pipe catch-basin drain; (13) \$0.11 per lin. ft. 6-in. pipe under-drain; (15) \$0.25 per lin. ft. 6-in. pipe house drain; (19) \$38.00 manholes, each; (20) \$11.00 drop inlets each; (21) \$2.89 per cu. yd. rock excavation.
Drains in Greenbrier st., between Bloomfield and Park sts.....	Quimby & Ferguson.....	July 30, 1897.....	(12) \$0.40 per lin. ft. 12-in. pipe catch-basin drain; (16) \$0.32 per lin. ft. 6-in. pipe house drain; (22) \$0.50 per cu. yd. gravel.
Sewers and drains in Tonawanda st., between Geneva ave. and Greenbrier st.	P. & F. E. McCarthy.....	August 12, 1897....	(1) \$0.10 per cu. yd. earth excavation below grade; (8) \$0.43 per lin. ft. 12-in. pipe house sewer; (9) \$0.28 per lin. ft. 12-in. pipe catch-basin drain; (10) \$0.28 per lin. ft. 10-in. pipe catch-basin drain; (13) \$0.05 per lin. ft. 6-in. pipe under-drain; (15) \$0.30 per lin. ft. 6-in. pipe house drain; (18) \$28.00 manholes, each; (19) \$35.00 catch-basins, each; (20) \$12.00 drop-inlets, each; (21) \$3.00 per cu. yd. rock excavation.

Sewer work in Peterborough st.	Cullen Brothers	August 19, 1897.	(1) \$2.30 per lin. ft. earth excavation for brick sewers below grade; (2) \$2.30 per lin. ft. earth excavation for brick catch-basin drain; (4) \$0.85 per lin. ft. for earth excavation below grade; (5) \$3.80 per cu. yd. brick masonry, American cement mortar; (6) \$4.00 per cu. yd. brick masonry, Portland cement mortar; (7) \$2.00 per cu. yd. concrete; (8) \$24.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (9) \$23.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (10) \$2.00 per lin. ft. 18-in. pipe house sewer; (11) \$0.10 per lin. ft. 8-in. pipe under-drain; (12) \$0.15 per lin. ft. 6-in. pipe under-drain; (15) \$3.25 per spruce pile driven.
Sewers and drains in Columbia road, between Dudley st. and Edward Everett sq.	Daniel E. Lynch.	September 7, 1897.	(1) \$0.50 per cu. yd. earth excavation below grade; (2) \$5.00 per cu. yd. rock excavation; (4) \$27.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$0.01 per cu. yd. spruce lumber for sheeting and shoring and left in place; (7) \$0.53 per lin. ft. 12-in. pipe house sewer; (10) \$0.43 per lin. ft. 10-in. pipe catch-basin drain; (14) \$0.15 per lin. ft. 6-in. pipe under-drain; (17) \$0.45 per lin. ft. 6-in. house-drain; (18) \$1.00 each skants & Y's; (19) \$30.00, manholes, each; (20) \$35.00 catch-basins, each; (21) \$10.00, drop-inlets, each; (22) \$0.35 per cu. yd. gravel.
Culvert, sewers and drains in Elizabeth, Norfolk and Morton sts.	T. H. Connolly	September 21, 1897	(1) \$0.25 per cu. yd. earth excavation below grade; (2) \$4.00 per cu. yd. rock excavation; (4) \$1.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$20.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7) \$0.50 per lin. ft. 15-in. pipe house sewer; (8) \$0.55 per lin. ft. 12-in. pipe house sewer; (9) \$1.00 per lin. ft. 18-in. pipe culvert; (10, 11 and 12) \$0.25 per lin. ft. 15, 12 and 10-in. pipe catch-basin drain; (14) \$0.10 per lin. ft. 6-in. pipe under-drain; (17) \$0.35 per lin. ft. 6-in. pipe house drain; (18) \$1.00 each Y's; (19) \$45.00, manholes, each; (20) \$45.00, catch-basins, each; (21) \$10.00, drop-inlets, each; (22) \$0.50 per cu. yd. gravel.

Sewer Construction, under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto. — *Continued.*

CONTRACT.	Awarded to	Dated	Price.
Culvert, sewers and drains, Burt st., between Ashmont and Washington sts.	J. P. O'Connell	September 8, 1897.	(2) \$4.00 per cu. yd. rock excavation; (3) \$4.00 per cu. yd. Portland cement concrete; (6) \$0.50 per lin. ft. earth excavation for stone culvert; (7) \$0.48 per lin. ft. 15-in. pipe house sewer; (8) \$0.43 per lin. ft. 12-in. pipe house sewer; (10 and 11) \$0.25 per lin. ft. 12 and 10-in. pipe catch-basin drain; (14 and 17) \$0.30 per lin. ft. 6-in. pipe under-drain and house-drain; (18) \$1.00 each slant; (19) \$30.00, manholes, each; (20) \$40.00, catch-basins, each; (21) \$10.00, drop inlets, each; (23) \$14.00 per cu. yd. brick masonry. American cement mortar; (24) \$3.50 per cu. yd. rubble masonry; (25) \$1.00 per sq. yd. rubble paving; (26) \$7.00 per cu. yd. covering stones.
Culvert, sewers and drains, Fairmount st.	P. & F. E. McCarthy	September 28, 1897	(1) \$0.01 per lin. ft. earth excavation below grade; (2) \$2.50 per cu. yd. rock excavation; (3) \$1.50 per cu. yd. concrete; (4) \$0.01 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$0.01 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7 and 8) \$0.15 per lin. ft. 24 and 18-in. pipe culvert; (9) \$0.36 per lin. ft. 12-in. pipe house sewer; (10) \$0.25 per lin. ft. 18-in. pipe catch-basin drain; (11) \$0.23 per lin. ft. 15-in. pipe catch-basin drain; (12) \$0.20 per lin. ft. 12-in. pipe catch-basin drain; (13) \$0.15 per lin. ft. 10-in. pipe catch-basin drain; (14) \$0.06 per lin. ft. 6-in. pipe under-drain; (16) \$5.00 per cu. yd. rubble masonry; (17) \$0.20 per lin. ft. 6-in. house-drain; (19) \$28.00, manholes, each; (20) \$43.00, catch-basins, each; (21) \$14.00, drop-inlets, each; (23) \$0.10 per cu. yd. gravel.
Culvert, sewers and drains, Leroy st.	James Dolan	October 13, 1897. . .	(1) \$0.18 per cu. yd. earth excavation below grade; (2) \$3.00 per cu. yd. rock excavation; (3) \$3.50 per cu. yd. concrete; (4) \$1.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$1.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (6) \$5.00 per

Sewers and drains, Belmore terrace.....	James Dolan.....	October 13, 1897..	<p>cu. yd. brick masonry; (8 and 9) \$0.36 per lin. ft. 12 and 10-in. pipe house sewer; (10) \$4.25 per cu. yd. rubble masonry; (12) \$0.22 per lin. ft. 12-in. pipe catch-basin drain; (13) \$0.24 per lin. ft. 10-in. pipe catch-basin drain; (14) \$0.16 per lin. ft. 6-in. pipe under-drain; (15) \$0.70 per lin. ft. earth excavation for concrete at vert; (17) \$0.30 per lin. ft. 6-in. pipe house-drain; (1) \$1.00, each, Y's; (19) \$25.00, manholes, each; (20) \$38.4 catch-basins, each; (21) \$4.00, drop-inlets, each; (2) \$0.50 per cu. yd. gravel.</p>
Sewers and drains, Malvern st.	Quinby & Ferguson.....	October 9, 1897...	<p>(1) \$2.00 per cu. yd. rock excavation; (2) \$6.00 per 1 ft. 10-in pipe catch-basin drain; (3) \$1.25 per lin. 6-in house-drain; (5) \$30.00, catch-basins, each.</p>
Culvert, sewers and drains in Bernard st.....	Collins & Ham.....	October 20, 1897..	<p>(4) \$0.42 per lin. ft. 12-in pipe house sewer; (5 and 6) \$0.30 per lin. ft. 10-in. pipe house sewer and 10 catch-basin drain; (7) \$0.30 per lin. ft. 6-in. pipe house-drain; (9) \$27.00, manholes, each; (10) \$35.00, catch-basins, each.</p>
Culvert, sewers and drains in Bernard st.....	Collins & Ham.....	October 20, 1897..	<p>(1) \$0.40 per cu. yd. earth excavation below grade; (2) \$1.00 per cu. yd. rock excavation; (3) \$4.75 per cu. yd. concrete; (4) \$20.00 per M. H. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (6) \$10.75 per cu. yd. brick masonry; (7 and 8) \$0.60 per lin. ft. 30 and 24-in catch-basin drain; (9, 10 and 11) \$0.40 per lin. ft. 24, 18 and 15-in. pipe catch-basin drain; (12) \$0.35 per lin. ft. 12-in. pipe catch-basin drain; (13) \$0.30 per lin. ft. 10-in pipe catch-basin drain; (14) \$0.10 per lin. ft. 6-in. pipe under-drain; (15) \$4.00 per cu. yd. rubble masonry; (17) \$0.26 per lin. ft. 6-in house-drain; (18) \$1.00, each, slant; (19) \$30.00, manholes, each; (20) \$33.00, catch-basins, each; (21) \$12.00, drop-inlets, each; (23) \$0.50 per cu. yd. gravel; (24) \$3.00 per lin. ft. earth excavation for concrete culvert.</p>
Sewers and drains, Rosseter st., between Bullard st. and Bowdoin ave. and outlet.....	T. F. Broderick.....	October 28, 1891..	<p>(2) \$2.00 per cu. yd. rock excavation; (7) \$0.50 per lin. ft. 12-in. pipe house sewer; (10) \$0.50 per lin. ft. 18-in. pipe catch-basin drain; (11) \$0.40 per lin. ft. 15-in pipe catch-basin drain; (12) \$0.30 per lin. ft. 12-in. pipe catch-basin drain; (13) \$0.25 per lin. ft. 10-in. pipe catch-basin drain; (17) \$0.18 per lin. ft. 6-in. pipe house-drain; (19) \$30.00, manholes, each; (20) \$30.00, catch-basins, each; (21) \$12.00, drop-inlets, each.</p>

Sewer Construction, under Chapter 323 of the Acts of 1891, or Special Acts or Amendments thereto. — *Concluded.*

CONTRACT.	Awarded to	Dated	Price.
Sewers and drains, Oakley st., between Geneva ave. and Bowdoin st.	Daniel M. Dwyer.	November 9, 1897,	(2) \$4.00 per cu. yd. rock excavation; (7) \$0.20 per lin. ft. 12-in. pipe house sewer; (10 and 12) \$0.15 per lin. ft. 15 and 16-in. pipe catch-basin drain; (11) \$0.25 per lin. ft. 12-in. pipe catch-basin drain; (17) \$0.20 per lin. ft. 6-in. pipe house-drain; (18) \$3.00, each, slants; (19) \$38.00, manholes, each; (20) \$40.00, catch-basin, each; (21) \$15.00, drop-inlets, each.

Sewer Construction under the General Law, Chapter 402 of the Acts of 1892.

CONTRACT.	Awarded to	Dated	Price.
Sewer and manholes in Gramplan way	J. P. O'Connell	April 17, 1897.	(1) \$0.50 per lin. ft. 12-in. pipe sewer; (2) \$3.80 per cu. yd. rock excavation; (3) \$30.00 each, manholes.
Sewers and drains in Bothnia st., Boylston st. and City Proper	Quinby & Ferguson.	June 29, 1897.	(1) \$1.00 per cu. yd. earth excavation below grade; (2) \$4.50 per cu. yd. concrete; (3) \$30.00 per M. ft. B. M. other than sheeting and shoring and left in place; (4) \$16.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (5) \$2.50 per lin. ft. 12-in. pipe house sewer; (6) \$0.16 per lin. ft. 6-in. pipe under-drains; (7) \$65.00, manholes, each; (8) \$5.00 per cubic yard rock excavation; (9) \$0.50 per cu. yd. gravel furnished.
Sewers and drains in Bryant st., Roxbury.	Thomas F. Broderick.	June 29, 1897.	(1) \$0.30 per cu. yd. earth excavation below grade; (2) \$0.40 per cu. yd. concrete; (3) \$16.90 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (4) \$16.90 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left

Sewers and drains in Wabeno st.....	J. P. O'Connell	June 29, 1897.....	in place; (5) \$0.58 per lin. ft. 12-in. pipe house sewer; (6) \$0.41 per lin. ft. 10-in. catch-basin drain; (8) \$39.75, manholes, each; (9) \$38.75, catch-basins, each; (10) \$5.00 per cu. yd. rock excavation; (11) \$0.90 per cu. yd. gravel.
Sewer and connections in River, Fremont and Norfolk sts.	J. P. O'Connell	June 29, 1897	(1) \$2.30 per lin. ft. 12-in. pipe house sewer; (3) \$30.00, manholes, each; (4) \$0.10 per cu. yd. rock excavation.
Sewer in Washington st., from Miller's lane to a summit near Grant pl., Dorchester.....	P. & F. E. McCarthy.....	July 2, 1897	(1) \$0.10 per cu. yd. earth excavation below grade; (2) \$1.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (3) \$1.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (4) \$0.55 per lin. ft. 12-in. pipe house sewer; (5) \$0.55 per lin. ft. 15-in. pipe house sewer; (6) \$0.05 per lin. ft. 6-in. pipe under-drain; (7) \$36.00, manholes, each; (8) \$3.50 per cu. yd. rock excavation.
Sewer in Robinson st.	J. P. O'Connell.....	July 2, 1897.....	(1) \$0.05 per cu. yd. earth excavation below grade; (2) \$0.50 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (3) \$0.50 per lin. ft. 12-in. pipe house sewer; (4) \$0.05 per lin. ft. 6-in. pipe under-drain; (5) \$32.00, manholes, each; (6) \$3.49 per cu. yd. rock excavation.
Sewer in Washington st. from Dorchester trunk sewer to Sanford st., Dorchester	D. M. Dwyer.....	July 8, 1897.....	(1) \$0.10 per cu. yd. earth excavation below grade; (4) \$0.00 per lin. ft. 12-in. pipe house sewer; (5) \$0.10 per lin. ft. 6-in pipe under-drain; (6) \$30.00, manholes, each; (7) \$3.00 per cu. yd. rock excavation.
Sewer in Ashley ave.	J. P. O'Connell	July 7, 1897.....	(3) \$0.20 per lin. ft. 12-in. pipe house sewer; (5) \$30.00, manholes, each; (6) \$3.90 per cu. yd. rock excavation.
			(1) \$2.50 per lin. ft. earth excavation; (2) \$0.10 per lin. ft. earth excavation below grade; (3) \$4.75 per cu. yd. brick masonry. American cement; (4) \$4.75 per cu. yd. concrete in place; (6) \$25.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (7) \$0.10 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (8) \$0.15 per lin. ft. 8-in. pipe under-drain; (11) \$0.10 per cu. yd. gravel.

Sewer Construction under the General Law, Chapter 402 of the Acts of 1892. — *Continued.*

CONTRACT.	Awarded to	Dated	Price.
Sewers in Coffey st. and private land and Ashmont st.	Quimby & Ferguson	August 12, 1897....	(1) \$0.10 per cu. yd. earth excavation; (2) \$1.00 per cu. yd. concrete; (3) \$5.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (4) \$1.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (5) \$0.02 per lin. ft. spruce piles driven; (6) \$1.58 per lin. ft. 15-in. pipe house sewer; (7) \$1.58 per lin. ft. 12-in. pipe house sewer; (13) \$0.01 per lin. ft. 6-in. pipe under-drain; (18) \$27.00 manholes, each; (19) \$2.50, pipe chimneys, each; (22) \$0.50 per cu. yd. gravel.
Sewers and drains, Berwick road, Brighton.....	T. J. Young & Co.....	August 2, 1897....	(2) \$4.00 per cu. yd. rock excavation; (7) \$1.85 per lin. ft. 12-in. pipe house sewer, including manholes.
Sewers and drains, Walnut ave., Roxbury.....	James Dolan.....	August 16, 1897...	(2) \$3.18 per cu. yd. rock excavation; (7) \$0.37 per lin. ft. 12-in. pipe house sewer; (19) \$37.00, manholes, each.
Catch-basin drains, St. Botolph and Irvington sts....	James Dolan.....	August 16, 1897...	(1) \$0.30 per cu. yd. earth excavation below grade; (2) \$5.00 per cu. yd. rock excavation; (3) \$4.25 per cu. yd. concrete; (4) \$30.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$0.01 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (10) \$0.43 per lin. ft. 18-in. pipe catch-basin drain; (19) \$25.00, manholes, each; (22) \$0.50 per cu. yd. gravel.
Sewer work in Columbus ave. West Roxbury low level sewer.....	J. P. O'Connell.....	August 25, 1897...	(1) \$2.00 per lin. ft. earth excavation; (2 and 3) \$4.25 per cu. yd. brick masonry, American and Portland cement mortar; (4) \$3.50 per cu. yd. rubble stone masonry; (6) \$0.20 per lin. ft. 8-in. pipe under-drain; (8) \$4.50 per cu. yd. rock excavation; (9) \$0.10 per cu. yd. gravel.
Sewer in Atlantic ave., South Market st. and Commercial Wharf.....	D. M. Dwyer.....	September 1, 1897,	(2) \$5.00 per cu. yd. rock excavation; (7 and 8) \$4.50 per lin. ft. 12 and 15-in. pipe house sewer, including manholes, etc.

Sewer in Fourth st., South Boston.....	Daniel M. Dwyer.....	September 18, 1897	(1) \$0.01 per cu. yd. rock excavation; (2) \$0.85 per lin. ft. 15-in. pipe house sewer; (14) \$0.20 per lin. ft. 6-in. pipe under-drains; (3) \$30.00, manholes, each.
Sewer and drains in Sawyer ave.....	James Dolan.....	August 23, 1897...	(2) \$5.00 per cu. yd. rock excavation; (7) \$2.25 per lin. ft. 12-in. pipe house sewer; (19) \$48.00, manholes, each.
Sewer in Walpole st., between Tremont st. and Columbus ave.....	Quimby & Ferguson.....	September 28, 1897	(2) \$5.00 per cu. yd. rock excavation; (7) \$0.80 per lin. ft. 18-in. pipe house sewer; (19) \$23.00, manholes, each.
Sewers and drains, Elmo and Greenwood sts.	Quimby & Ferguson.....	.....	(2) \$3.00 per cu. yd. rock excavation; (7) \$0.60 per lin. ft. 12-in. pipe house sewer; (19) \$28.00, manholes, each.
Sewer in Parker Hill ave., Parker and Calumet sts.	James Dolan.....	.....	(2) \$5.00 per cu. yd. rock excavation; (5) \$13.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7) \$1.12 per lin. ft. 12-in. pipe house sewer; (19) \$50.00, manholes, each.
Sewer work in H st.....	Michele Russo.....	October 21, 1897...	(1) \$1.75 per lin. ft. earth excavation, above grade; (2) \$0.50 per cu. yd. earth excavation, below grade; (3) \$7.00 per cu. yd. brick masonry, American cement mortar; (4) \$9.00 per cu. yd. brick masonry, Portland cement mortar; (5) \$4.00 per cu. yd. concrete; (6) \$28.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (7) \$13.00 per M. ft. B. M. B. spruce lumber for sheeting and shoring and left in place; (8) \$0.01 per lin. ft. 8-in pipe under-drain.
Sewers and drains, Chapman ave., between Lyons and Tucker sts.	T. H. Connolly.....	October 27, 1897...	(1) \$0.01 per cu. yd. earth excavation, below grade, (2) \$3.00 per cu. yd. rock excavation; (4) \$1.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$1.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7) \$0.40 per lin. ft. 12-in. pipe house sewer; (14) \$0.15 per lin. ft. 6-in. pipe under-drain; (19) \$30.00, manholes, each.
Sewer in Ellingwood st.....	J. P. O'Connell.....	October 25, 1897 ..	(3) \$3.00 per cu. yd. concrete; (7) \$1.75 per lin. ft. 15-in. pipe house sewer; (17) \$0.10, pipe chimneys, each; (19) \$40, manholes, each.
Sewers and drains in Birch st.....	P. McKeown.....	November 1, 1897,	(1) \$2 per cu. yd. rock excavations; (7) \$0.45 per lin. ft. 12-in. pipe house sewer; (14) \$0.08 per lin. ft. 6-in. pipe under-drain; (19) \$23, manholes, each.

Sewer Construction under the General Law, Chapter 402 of the Acts of 1892. — *Continued.*

CONTRACT.	Awarded to	Dated	Price.
Sewer work in Charles and Allen sts.....	Daniel E. Lynch.....	October 13, 1897...	(1) \$1.57 per lin. ft. earth excavation above grade; (2) \$0.80 per cu. yd. earth excavation below grade; (3) \$4.90 per cu. yd. brick masonry, American cement mortar; (4) \$7.00 per cu. yd. brick masonry, Portland cement mortar; (5) \$4.25 per cu. yd. concrete; (6) \$30 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (8) \$1.40 per lin. ft. 18-in. pipe house sewer; (9) \$0.15 per lin. ft. 8-in. pipe under-drain; (12) \$3.00 per spruce pile driven; (13) \$2.00 per cu. yd. gravel.
Sewers and drains in Oak terrace and outlet.....	D. Flynn.....	November 8, 1897,	(2) \$2.00 per cu. yd. rock excavation; (5) \$5.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7) \$0.50 per lin. ft. 12-in. pipe house sewer; (14) \$0.05 per lin. ft. 6-in. pipe under-drain; (19) \$27.00, manholes, each.
Sewers and drains in Shelton st.	D. E. Lynch.....	October 4, 1897....	(2) \$5.00 per cu. yd. rock excavation; (7) \$1.25 per lin. ft. 12-in. pipe house sewer; (19) \$50.00, manholes, each.
Sewers and drains, Commonwealth ave.....	T. J. Young & Co.....	November 13, 1897,	(1) \$4.00 per cu. yd. rock excavation; (2) \$7.25 per lin. ft. 30 in. pipe culvert; (19) \$35.00, manholes, each.
Sewer in Nelson st.	D. M. Dwyer.....	November 13, 1897,	(2) \$4.50 per cu. yd. rock excavation; (7) \$1.25 per lin. ft. 12-in. pipe house sewer; (19) \$40, manholes, each.
Sewer and drains in Webster st.	T. J. Young & Co.....	November 15, 1897,	(1) \$5.00 per cu. yd. rock excavation; (2) \$2.00 per lin. ft. 12-in. pipe house sewer, including manholes.
Sewer in Mozart st....	James Dolan.....	November 15, 1897,	(2) \$5.00 per cu. yd. rock excavation; (4) \$12.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$12 per M. ft. B. M. spruce lumber for sheeting; (7) \$1.85 per lin. ft. 12-in. pipe house sewer; (19) \$40.00, manholes, each.
Sewer in Evans st., between Capen st. and Stanton ave.	D. M. Dwyer.....	November 19, 1897,	(1) \$0.50 per cu. yd. earth excavation below grade; (2) \$4.50 per cu. yd. rock excavation; (5) \$12.00 per M. ft. B. M. spruce lumber for sheeting and shoring and

Sewers and drains, Bremen st.....	W. H. Sias.....	November 20, 1897,	left in place; (7) \$1.20 per lin. ft. 12-in. pipe house sewer; (14) \$0.20 per lin. ft. 6-in. pipe under-drain; (18) \$20.00, lamp-holes, each; (19) \$40.00, manholes, each; (22) \$0.80 per cu. yd. gravel.
Sewer in Hinchins ave.....	T. H. Connolly.....	November 22, 1897,	(1) \$2.00 per cu. yd. earth excavation below grade; (2) \$5.00 per cu. yd. rock excavation; (3) \$12.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (4) \$1.25 per lin. ft. 12-in. pipe-house sewer; (5) \$0.20 per lin. ft. 6-in. pipe under-drain; (6) \$40.00, manholes, each.
Sewer in Mountain ave. and outlet in Dumas sts. .	James Dolan.....	November 24, 1897,	(5) \$13.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7) \$2.75 per lin. ft. 12-in. pipe-house sewer; (13) \$30.00, manholes, each
Sewers and drains, Wordsworth st., between Saratoga and Pope sts.....	W. H. Sias.....	November 29, 1897,	(1) \$0.10 per cu. yd. earth excavation below grade; (2) \$2.50 per cu. yd. rock excavation; (4) \$1.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (5) \$1.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (7) \$0.55 per lin. ft. 12 in. pipe house sewer; (14) \$0.10 per lin. ft. 6-in. pipe under-drain; (19) \$28.00, manholes, each; (22) \$0.10 per cu. yd. gravel.
Sewer and drains in Evans st., between Morton st. and existing sewer.....	J. P. O'Connell.....	November 29, 1897,	(1) \$5.00 per cu. yd. rock excavation; (2) \$13.00 per M. ft. B. M. spruce lumber for sheeting and shoring and left in place; (3) \$1.50 per lin. ft. 15-in. pipe-house sewer; (5) \$40.00, manholes, each.
Sewers in private land, between Commonwealth ave. and Chiswick road, Brighton.....	T. J. Young & Co.....	December 2, 1897..	(2) \$4.50 per cu. yd. rock excavation; (6) \$1.50 per lin. ft. 12-in. pipe-house sewer; (19) \$40.00, manholes, each.
Sewer in Stanwood st., between Normandy st. and Columbia road.....	H. P. Nawn.....	December 6, 1897..	(1) \$5.00 per cu. yd. rock excavation; (2) \$2.00 per lin. ft. 24-in. pipe catch-basin drain; (3) \$35.00, manholes, each.
Sewer in Strathmore road, between Commonwealth ave. and Chestnut Hill ave.....	T. J. Young & Co.....	December 9, 1897,	(2) \$4.50 per cu. yd. rock excavation; (6) \$1.50 per lin. ft. 12-in. pipe-house sewer; (19) \$35.00, manholes, each.
			(2) \$4.50 per cu. yd. rock excavation; (3) \$1.25 per lin. ft. 12-in. pipe house sewer; (5) \$45.00, manholes, each.

Sewer Construction under the General Law, Chapter 402 of the Acts of 1892. — *Concluded.*

CONTRACT.	Awarded to	Dated	Price.
Sewer in Commonwealth ave., between Sidlaw and Strathmore roads.....	T. J. Young & Co.....	December 9, 1897.	(2) \$4.50 per cu. yd., rock excavation; (3) \$1.00 per lin. ft. 12-in. pipe house sewer; (5) \$45.00, manholes, each.
Sewer and drains in Evans st., between Nelson st. and summit, Dorchester.....	J. P. O'Connell.....	December 11, 1897	(2) \$4.50 per cu. yd. rock excavation; (8) \$1.50 per lin. ft. 12-in. pipe house sewer; (19) \$40.00, manholes, each.
Sewer in Woodside ave., West Roxbury.....	James Dolan.....	December 16, 1897	(1) \$5.00 per cu. yd. rock excavation; (2) \$13.00 per M. ft. B. M. spruce lumber for sheeting and shoring, and left in place; (3) \$1.25 per lin. ft. 12-in. pipe house sewer; (5) \$37.00, manholes, each.
Sewer in Wordsworth st.....	W. H. Sias.....	December 16, 1897	(1) \$5.00 per cu. yd. rock excavation; (2) \$13.00 per M. ft. B. M. spruce lumber for sheeting and shoring, and left in place; (3 and 4) \$1.50 per lin. ft. 15 and 12-in. pipe house sewer; (6) \$40.00, manholes, each.
Sewer in Fuller st., between passageway and Morton st.....	D. Flynn.....	December 17, 1897	(2) \$5.00 per cu. yd. rock excavation; (6) \$1.00 per lin. ft. 12-in. pipe house sewer; (15) \$0.20 per lin. ft. 6-in. pipe under-drain; (19) \$40.00, manholes, each.
Sewers and drains in Stanwood st., between Normandy st. and Blue Hill ave.....	H. P. Nawn.....	December 21, 1897	(2) \$4.50 per cu. yd. rock excavation; (6) \$1.50 per lin. ft. 12-in. pipe house sewer; (19) \$35.00, manholes, each.
Building Dorchester ave. sewer outlet.....	Miller & Ellis.....	December 10, 1897	\$1,800.

Altering the Course of Stony Brook, Chapter 530 of the Acts of 1895.

CONTRACT.	Awarded to	Date	Price.
Building a brick conduit for Stony Brook in three sections in Columbus ave. and land of the city of Boston	H. P. Nawn.....	April 26, 1897.....	(1) \$1.00 per cu. yd. earth excavation in open trench above grade; (2) \$2.75 per cu. yd. earth excavation in tunnel above grade; (3) \$0.80 per cu. yd. earth excavation below grade; (4) \$2.00 per cu. yd. rock excavation in open trench; (5) \$3.50 per cu. yd. rock excavation in tunnel; (6) \$5.00 per cu. yd. concrete in open trench; (7) \$7.00 per cu. yd. concrete in tunnel; (8) \$7.00 per cu. yd. brick masonry. American cement mortar; (9) \$7.00 per cu. yd. brick masonry. Portland cement mortar; (10) \$0.50 per lin. ft. 10-in. pipe under-drain; (11) \$42.00 per M. ft. B. M. spruce lumber for sheeting and shoring, and left in place; (12) \$0.50 per cu. yd. gravel furnished.
Building a brick conduit for Stony Brook at the intersection of Columbus ave. and Centre st.	J. P. O'Connell	May 25, 1897	(1) \$1.65 per cu. yd. earth excavation above grade; (2) \$0.80 per cu. yd. earth excavation below grade; (3) \$2.50 per cu. yd. rock excavation; (4) \$5.00 per cu. yd. concrete; (5) \$6.00 per cu. yd. brick masonry; (6) \$37.00 per M. ft. B. M. tongued and grooved sheeting left in place; (7) \$0.50 per lin. ft. 10-in. pipe under-drain; (8) \$16.00 per M. ft. B. M. spruce lumber for sheeting and shoring, left in place; (9) \$35.00 per M. ft. B. M. matched boards used in lining the temporary flume; (10) \$0.50 per cu. yd. gravel furnished.

Altering the Course of Stony Brook, Chapter 530 of the Acts of 1895. — *Concluded.*

CONTRACT.	Awarded to	Dated	Price.
Building about 117 lin. ft. of Stony Brook conduit in private land and land of the City of Boston, Roxbury, Mass.....	J. P. O'Connell.....	October 21, 1897...	(1) \$2.80 per cu. yd. earth excavation; (2) \$4.50 per cu. yd. rock excavation; (3) \$6.00 per cu. yd. concrete; (4) \$4.50 per cu. yd. rubble masonry; (5) \$7.00 per cu. yd. brick masonry; (6) \$4.00 per lin. ft. 40-in. cast-iron pipe; (7) \$16.00 per M. ft. B. M. spruce lumber for sheeting and shoring, left in place; (8) \$16.00 per M. ft. B. M. spruce lumber for purposes other than sheeting and shoring and left in place; (9) \$100.00 building dam; (10) draining, its actual reasonable cost as determined by the superintendent, plus 15%; (11) \$0.50 per lin. ft. pipe 8-in. under-drain.
Completing, temporarily, the forebay of the new Stony Brook gate-house	H. P. Nawn.....	September 20, 1897	(1) \$1.00 per cu. yd. earth excavation; (2) \$6.00 per cu. yd. rock excavation in tunnel; (3) \$2.50 per cu. yd. rubble masonry, laid in the retaining-wall in north side of the excavation for new forebay; (4) \$7.00 per cu. yd. brick masonry.
Building rubble stone wall below grade 9.5 Stony Brook gate-house forebay.....	H. P. Nawn.....	September 3, 1897,	(1) \$5.00 per cu. yd. rubble masonry.
Furnishing range stone for Stony Brook gate-house.....	Austin Ford & Son.....	October 13, 1897...	(1) \$10.85 per cu. yd.
Laying range stone in Stony Brook gate-house above grade 9.5.....	H. P. Nawn	October 13, 1897...	\$6.00 per cu. yd.

Building Ferry-boat, Ferry-drops, Tanks, etc.

CONTRACT.	Awarded to	Dated	Price.
Plans, specifications, estimates, superintendence of construction, etc. for ferry-boat.....	R. F. Keogh.....	February 16, 1897,	Five (5) per cent. of the total cost of the boat.
Building ferry-drop for the South Ferry, East Boston side.....	J. M. Brooks.....	September 22, 1897	\$5,433.50.
Building a tank for the South Ferry, East Boston side.....	J. M. Brooks.....	September 22, 1897	\$1,737.50.
Building a double-screw ferry-boat.....	W. McKie	October 1, 1897...	\$61,000, the city to do the electric wiring and install plant.

Pile Driving.

CONTRACT.	Awarded to	Dated	Price.
Summer st., between Cove st. and Fort Point channel.....	W. H. Sias.....	June 26, 1897.....	(1) \$0.12 per lin. ft. by daylight; (2) \$0.12 per lin. ft. at night.
Harrison ave., between Massachusetts ave. and Eustis st.....	W. H. Sias.....	July 1, 1897.....	(1) \$0.11½ per lin. ft. by daylight; (2) \$0.11½ per lin. ft. at night.
Neponset ave. and Tolman st.....	D. M. Dwyer.....	October 1, 1897...	(1) \$2.65 per pile not more than 25 ft. long.
Kneeland st., between Federal st. and the O. C. R. R. station	W. S. Reudle.....	November 28, 1897.	(1) \$0.11 per lin. ft.

Reservoir Extension.

CONTRACT.	Awarded to	Dated	Price.
Building extension to Moon Island reservoir and a flushing sewer, and filling cove.....	Perkins, White & Co.....	October 27, 1897..	<p>(1) (A) \$0.60 per cu. yd. earth excavation below grade, \$7.75 for walls; (B) \$0.70 per cu. yd. earth excavation for flushing sewer; (C) \$0.35 per cu. yd. earth excavation for other purposes; (D) \$2.00 per cu. yd. rock excavation.</p> <p>(2) \$1.75 per cu. yd. ballast in place.</p> <p>(3) \$1.20 per ton rip-rap deposited.</p> <p>(4) (A and B) \$4.00 per cu. yd. American and Portland cement concrete.</p> <p>(5) (A) \$10.00 per cu. yd. brick masonry, Portland cement mortar; (B) \$9.80 per cu. yd. brick masonry, American cement mortar.</p> <p>(6) (A, B and C) \$3.80 per cu. yd. rubble masonry, American and Portland cement mortar.</p> <p>(7) \$2.50 per cu. yd. dimension stone masonry laid.</p> <p>(8) \$2.00 per pier stone set.</p> <p>(9) (A) \$0.15 per lin. ft. 10-inch drain pipe; (B) \$0.20 per lin. ft. 15-inch drain pipe.</p> <p>(10) (A) \$34.00 per M. ft. B. M. tongued and grooved sheet piling for permanent use; (B) \$24.00 per M. ft. B. M. spruce lumber laid for permanent use for purposes other than sheet piling.</p>

Miscellaneous Agreements.

CONTRACT.	Awarded to	Dated	Price.
License to use twenty-four street-sweeping machines and to manufacture additional machines..	Aaron Stackpole, Jr.....	February 1, 1897..	\$600.00 per year for the use of; \$24.00, each, as licer to manufacture.
Furnishing two G. E. 25-horse power special motors and installing complete, ready for use, at the South Ferry, Boston side.....	Lockwood Manufacturing Co.	July 6, 1897.....	\$1,970.00.
Furnishing one G. E. 25-horse power special motor and installing complete, ready for use, at the South Ferry, East Boston side.....	Lockwood Manufacturing Co.....	October 4, 1897....	\$1,100.00.
Refilling street-sweeping machine brooms with best American rattan.....	Heywood Bros. and Wakefield Co.....	September 20, 1879	\$15.00, per broom.
Artificial stone retaining-walls, steps and plat-forms, cast-iron fences, hand rails and castings.	W. A. Murtfeldt Co.....	September 2, 1897,	\$4,000.00.
Repairs on the two high-duty pumping engines, Calf Pasture pumping station.....	Lockwood Manufacturing Co.....	October 6, 1897....	\$12,450.00.
Building Talbot-avenue bridge for the tracks of the New England Railroad Co.....	New England Railroad Co...	October 30, 1897..	A sum not to exceed \$25,000.00.
Erecting two air pumps for the Calf Pasture pumping-station.....	I. P. Morris Co.....	December 9, 1897,	\$4,975.00.
Plans, specifications, estimates and superintendence, etc., for a 75,000,000 gallons pump for the Calf Pasture pumping station.....	E. D. Leavitt.....	December 14, 1897,	\$7,500.00; \$0.94 per hour for draughtsman's time, including materials, etc.

List of Streets Paved with Trinidad Asphalt.

City Proper.

Name.	Location.	Length.	Area.	Year Laid.
Albany st.	East Concord st. to East Springfield st...	450	2,700	1884
Arch st.	Franklin st. to Milk st.	426	1,267	1883-93
Ash st.	Bennet st. to Nassau.....	230	409	1887
Barton ct.....	Brighton st. to Barton st.....	134	186	1894
Batterymarch st...	Milk st. to Kilby st.....	260	857	1881-96
Beacon st.....	Charles st., across Arlington st.....	870	3,800	1891
Beacon st.....	Dartmouth st. to within 150 ft. of westerly line of Gloucester st.....	1,744	9,277	1892
Beacon st.	68 ft. west of Gloucester st. to Massachusetts ave.....	1,019	5,391	1893
Bennet st.....	90 ft. west of Harrison ave. to 162 ft. east of Washington st.....	180	300	1887
Bond st.....	Hanson st. to Milford st.	192	426	1895
Boylston st.....	Easterly side of Berkeley st., across Clarendon st.	656	3,869	1897
Brattle sq.	Brattle st. to Elm st.	281	670	1888
Brighton st.....	Leverett st. to Allen st.....	845	1,737	1892
Brimmer st.....	Beacon st. to Pinckney st.....	1,087	3,300	1895
Central st.....	Broad st. to Kilby st.	313	869	1887
Chambers st.....	Green st., across Poplar st.....	460	1,061	1894
Chambers st.....	Brighton st. to Charles st.	272	604	1895
Charter st.	Hanover st., across Unity st.	318	636	1894
Cherry st.....	Washington st. to Shawmut ave.....	334	594	1892
Clark st.....	Hanover st., toward North st.	319	603	1892
Columbus ave.	Boston & Albany Railroad bridge, } across Massachusetts ave..... }	3,505	15,578	1884-87 1888-91
Columbus ave.	Massachusetts ave. to 301 ft. south of Camden st.....	903	5,418	1896
Corning st.....	Washington st. to Shawmut ave.	338	734	1896
Congress sq.	Between Devonshire st. and Congress st.	19	37	1883
Cooper st.....	North Margin st., across Endicott st...	194	597	1887
Cooper st.....	Endicott st. to Charlestown st.	205	604	1887-97
Court st.	Washington st. to Court sq.....	231	642	1891
Court sq.....	Court st. to Court st.....	665	1,883	1881-94
Davis st.	Washington st. to Harrison ave.	323	646	1892
Dartmouth st.....	Boylston st. to Newbury st.....	266	2,058	1894
Doane st.	Kilby st. to Broad st.	312	624	1881
Carried forw'd,	.....	17,351	67,377	

List of Streets Laid in Trinidad Asphalt. — Continued.
Proper.

Name.	Limits.	Length.	Area.	Year Laid.
<i>Brought forward,</i>		17,351	67,377	
Edinboro' st.....	Essex st. to Beach st.....	470	924	1895
Endicott st.....	Cooper st., across Thacher st.....	312	1,005	1884
Exchange pl.	Congress st. to Kilby st.....	244	678	1887
Groton st.....	Washington st. to Shawmut ave.....	335	558	1892
Hanover ave.....	Hanover st. to North st.	307	266	1892
Harrison ave.....	East Newton st. to East Springfield st..	928	2,681	1888-95
Harrison ave.....	Northerly side of East Springfield st. to Roxbury line		130	1888-95
Hollis st.....	Tremont st. toward Washington st.....	276	521	1891
Hudson st.....	Beach st. to within 90 ft. north of Curve st. (minus Kneeland and Harvard sts.)	1,407	3,938	1891
Kilby st.	State st. to Milk st.....	648	2,628	1881
Laconia st.....	Washington st. to Harrison ave.....	330	727	1896
La Grange st.....	Tremont st. toward Washington st.	181	355	1897
Lincoln pl.....	Worcester st. to West Springfield st.....	217	313	1897
Malcolm st.	Mt. Vernon st. to Chestnut st.....	261	290	1892
Massachusetts ave.	Columbus ave. to Tremont st. (southerly roadway)	267	1,621	1892
Massachusetts ave.	Tremont st. to Shawmut ave. (southerly roadway)	470	2,934	1892
Massachusetts ave.	Shawmut ave. to Washington st. (south- erly roadway)	180	994	1892
Moon st.....	Between North sq. and Fleet st.	182	384	1891
North Bennet st..	Hanover st. to Salem st.....	552	920	1883
North Margin st..	Thacher st. to Wiget st.....	515	1,154	1895
Oxford st.....	Beach st. to Essex st.....	430	735	1895
Parmenter st.....	Hanover st. to Salem st.....	279	764	1893
Pinckney st.	Charles st., across Brimmer st.....	271	723	1895
Pine st.	Washington st. to Harrison ave.	419	597	1896
Poplar st.	Chambers st. to Charles st.	1,188	2,442	1887-92
Spring st.	Poplar st. to Leverett st.	447	908	1895
Stevens st.	Lincoln pl. toward Shawmut ave.....	16	22	1897
Stillman st.....	Between Salem st. and Endicott st.	150	417	1892
Stoddard st.....	Howard st. to Court st.....	135	150	1892
Sun-court st.....	North st. to Moon st.	151	218	1891
Thacher st.....	Charlestown st. to Endicott st.	203	562	1892
Tileston st.....	155 ft. west from Hanover st. to Salem st.	417	470	1887-85
<i>Carried forward,</i>		29,539	98,406	

List of Streets Paved with Trinidad Asphalt. — Concluded.**City Proper.**

Name.	Location.	Length.	Area.	Year Laid.
<i>Brought forw'd,</i>		29,539	98,406	
Unity st.	Charter st. to Tileston st.	330	500	1897
Warrenton st.	Eliot st. to Tremont st.	670	1,587	1891
Warrenton st.	Shawmut ave. to Washington st.	468	910	1891
Water st.	Congress st., across Batterymarch st.	325	975	1889
Water st.	Liberty sq. to Broad st.	252	682	1896
Wiggin st.	North Bennet st. to Tileston st.	107	119	1887
Wiget st.	Salem st. to North Margin st.	250	240	1897
		31,950	103,419	

Charlestown.

Austin st.	Seminary pl. to Lawrence st.	144	421	1891
Bunker Hill st. ...	At Tufts st.		150	1897
Corey st.	124 ft. north of Moulton st. to Moulton st.	124	276	1897
Moulton st.	Easterly side of Corey st. to Vine st.	81	243	1897
Moulton st.	Vine st. to Bunker Hill st.	130	390	1897
Rutherford ave. ..	From Devens st., 128 ft. westerly	128	284	1897
Tufts st.	From Bunker Hill st., 141 ft. northerly ..	141	415	1897
Vine st.	Bunker Hill st., across Moulton st.	165	670	1897
		913	2,849	

South Boston.

D st.	West Fifth st. to Gold st.	126	448	1889
E st.	West Third st. to Bolton st.	111	419	1892
Rogers st.	Dorchester st. to Preble st.	360	480	1891
West Sixth st.	West of C st. toward D st.	91	343	1887
West Third st.	153 ft. west of E st., across E st.	185	769	1892
		873	2,459	

Roxbury.

Cabot st.	Tremont st. to Vernon st.	1,959	6,559	1891-92
Cabot st.	Easterly side of Vernon st. to Linden Park st.	484	1,390	1897
Columbus ave.	From 301 ft. south of Camden st., across Terry st.	2,640	15,840	1896
		5,083	23,789	

Streets paved with Sicilian Rock Asphalt.

City Proper.

Name.	Limits.	Length.	Area.	Year Laid.
Acton st.....	Washington st. to Bradford st.....	259	352	1896
Albany st.....	Easterly side of Stoughton st., across East Concord st.....	285	1,710	1897
Avery st.....	Washington st. to Mason st.....	360	275	1897
Ash st.....	Oak st., across Nassau st.....	220	391	1895
Barton st.....	Leverett st. to Milton st.	427	723	1895
Bradford st.....	Waltham st. to Shawmut ave.....	600	1,270	1897
Charles st.	Between Revere st. and Cambridge st. (in front of Eye and Ear Infirmary)..	191	225	1895
Cobb st.....	Washington st. to Shawmut ave.....	347	1,040	1897
Decatur st.....	Washington st. to Harrison ave.....	370	781	1892
Dwight st.....	Shawmut ave. to Tremont st.....	716	2,075	1893
Exeter pl.....	Chauncey st. to Harrison ave.	170	387	1897
Fabin st.	Newland st. to Ivanhoe st.....	421	615	1895
Fay st.	Dover st. to Harrison ave.....	318	560	1894
Hamburg st.	Mystic st. to Harrison ave.....	383	597	1896
Hanover st.	Tileston st., across Charter st.....	315	934	1896
Huntington ave...	Boston & Albany Railroad bridge to Cumberland st.....	1,591	8,840	1896
Mason st.	From a point 213 ft. south of West st. for a distance of 231 ft. southerly....	231	480	1894
Massachusetts av..	Washington st. to Albany st. (southerly roadway)	662	4,151	1894
Mayo st.	Castle st. to Cobb st.....	251	418	1897
Meander st.....	East Dedham st. to Malden st.	307	437	1896
Motte st.	Washington st. to Harrison ave.....	332	516	1892
Mystic st.	Malden st. to East Dedham st.	204	226	1896
Mystic st.....	East Dedham st. to East Canton st.....	215	335	1896
Mystic st.	East Canton st. to East Brookline st. ...	216	337	1896
North Margin st..	Thacher st., toward Endicott st.....	205	518	1897
Norwich st.	Mystic st. to Meander st.	221	339	1896
Ohio st.	Washington st. to Shawmut ave.....	343	277	1896
Pemberton sq.....	In front of the Suffolk Court-House	323	1,365	1894
Prince st.....	Hanover st. to Bennet ave.....	293	654	1895
Taylor st.	Dwight st. to Milford st.....	196	274	1896
Whitmore st.....	Kneeland st. to Harvard st.	249	445	1895
		11,221	31,548	

Streets Paved with Sicilian Rock Asphalt. — *Concluded.***South Boston.**

Name.	Limits.	Length.	Area.	Year Laid.
Athens st.....	West Second st. to A st.	617	916	1895
Athens st.....	B st. to C st.	515	746	1892
East Broadway...	Front of Lincoln School.....	180	1,000	1897
K st.	East Sixth st. to East Eighth st.....	566	1,083	1896
West Broadway ..	From 196 ft. east of easterly line of Dorchester ave. to A st.	360	2,000	1892
West Broadway ..	Gardner pl. to 150 ft. easterly	150	648	1893
West Broadway ..	Between New England Railroad bridge and 170 ft. west of F st. (3 ft. gutters),		1,487	1897
West Broadway ..	170 ft. west of F st. to 248 ft. east of F st.,	448	1,544	1897
		2,836	9,424	

Charlestown.

Warren st.....	Winthrop st. to Soley st.	127	365	1895
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Roxbury.

Columbus ave.	Terry st. to within 61 ft. north of Station st.	884	5,304	1896
Huntington ave...	Easterly side of Cumberland st. to Massachusetts ave.	747	4,150	1896
Huntington ave. ..	Massachusetts ave. to Gainsborough st.,	587	3,372	1896
		2,218	12,826	

Streets Paved with Seyssel Asphalt.**City Proper.**

Name.	Limits.	Length.	Area.	Year Laid.
Paul st.	Emerald st. to Village st.....	123	236	1897
Paul st.	Village st. to Tremont st.....	276	456	1897
Pelham st.	Washington st. to Shawmut ave.....	320	693	1897
Waterford st.....	Washington st. to Shawmut ave.....	316	544	1897
		1,045	1,929	

Other Asphalt Streets — City Proper.

Name.	Limits.	Length.	Area.	Year Laid.
Massachusetts ave.	Columbus ave. to Tremont st. (asphalt-ina).....	267	1,622	1897
Harris st.....	Hanover st. to North st., coal tar (Ayer),	294	425	

South Boston.

I st.....	East Broadway to East Fourth st., coal tar (Ayer)	272	1,027	
		833	3,074	

Summary.

Trinidad asphalt....	Length, 38,819 ft. or	7.35 miles, or	132,516 sq. yds.	
Sicilian rock asphalt, "	16,402 " "	3.10 " "	54,163 " "	
Seyssel asphalt.....	" 1,045 " "	0.20 " "	1,929 " "	
Other asphalts.....	" 833 " "	0.16 " "	3,074 " "	
Total sheet asphalts,	57,099 " "	10.81 " "	191,682 " "	
Asphalt blocks.....	3,638 " "	0.69 " "	12,046 " "	
Total.....	60,737 " "	11.50 " "	203,728 " "	

Street Mileage.

The following table shows the length of public highways and the character of the pavements, February 1, 1898:

	Asphalt.	Block.	Brick.	Cobble.	Macadam.	Gravel.	Not graded.	Totals.
Year 1896 report.....	10.20	80.72	0.41	1.84	242.58	113.20	10.17	459.12
February 1, 1898.								
City proper.....	*9.17	†42.92	0.38	1.28	26.68	0.13	0.37	80.93
Charlestown	0.20	8.94	.....	.....	13.68	.....	0.07	22.89
East Boston .....	.....	4.95	.....	0.13	16.65	15.46	.....	27.19
South Boston... ..	0.75	12.85	.....	0.05	21.43	1.27	5.41	41.76
Roxbury.....	1.38	8.94	.....	0.01	62.13	10.28	2.09	84.83
West Roxbury .....	.....	0.09	.....	.....	44.33	31.67	0.87	76.96
Dorchester .....	.....	4.26	.....	.....	64.68	24.05	2.21	95.20
Brighton .....	.....	.....	.....	.....	21.73	19.57	0.13	41.43
Total	11.50	82.95	0.38	1.47	261.31	102.43	11.15	471.19

NOTE.—The above districts refer to areas enclosed by the original boundary lines.

*Of this amount 0.69 miles = asphalt blocks.

†Of this amount 4.98 miles = granite-block paving on concrete base

Total length of public streets, 471.19 miles.

There have been laid out and accepted by the Street Commissioners during the year, 11.38 linear miles; 24,874 square feet have been discontinued; corrections to previous measurements on account of revision and correction of previous tables from all causes show an increase of 0.69 miles; making a total net increase of 12.07 miles.

The rate of increase from year to year is shown in the following table:

1859.....111.50 miles.	1880.....350.54 miles.	1890.....404.60 miles.
1871.....201.32 "	1881.....355.50 "	1891.....409.60 "
1872.....207.40 "	1882.....359.85 "	1892.....434.59 "
1873.....209.24 "	1883.....367.99 "	1893.....443.34 "
1874.....313.90 "	1884.....374.10 "	1894.....447.65 "
1875.....318.58 "	1885.....379.60 "	1895.....452.12 "
1876.....327.50 "	1886.....383.55 "	1896.....456.11 "
1877.....333.20 "	1887.....390.30 "	1897.....459.12 "
1878.....340.39 "	1888.....392.72 "	1898.....471.19 "
1879.....345.19 "	1889.....397.84 "	

Areas of Pavement.

The following table shows the area of pavements in square yards arranged by districts:

DISTRICTS.	Asphalt.	Block.	Brick.	Cobble.	Macadam.	Gravel.	Not graded.	Totals.
Feb. 1, 1897. . .	182,797	1,740,577	5,082	20,313	4,455,778	1,845,277	248,993	8,498,817
Feb. 1, 1898.								
City Proper..	*150,989	†929,563	5,018	12,509	502,910	1,508	18,463	1,620,960
Charlestown,	3,214	199,532	.....	.....	205,316	.....	4,348	412,410
East Boston..	.....	111,012	.....	2,600	138,890	284,896	.....	537,398
So. Boston...	12,910	269,409	.....	1,192	381,387	24,856	128,940	818,694
Roxbury.....	36,615	194,476	.....	275	1,146,091	161,410	41,507	1,580,374
W. Roxbury. .	.....	2,067	.....	.....	751,809	482,766	13,164	1,249,806
Dorchester ..	.....	94,046	.....	.....	1,159,777	383,242	90,927	1,727,992
Brighton. ...	.....	.....	.....	.....	551,293	305,652	2,875	859,820
Total square yards	203,728	1,800,105	5,018	16,576	4,837,473	1,644,330	300,224	8,807,454

* Of this amount, 12,046 square yards = asphalt blocks.

† Of this amount, 93,813 square yards = granite-block paving on concrete base.

Total area of public streets 8,807,454 square yards.

INCOME.

Statement showing the amount of bills and cash deposited with City Collector, less bills withdrawn, for the year ending January 31, 1898, by the several divisions of the Street Department:

Bridge Division	\$5,340 28
Boston and Cambridge Bridges	996 74
Ferry Division	171,461 23
Paving Division	57,366 09
Sanitary Division	33,707 43
Sewer Division	179,275 31
Street-Cleaning Division	6,245 01
Street-Watering	3,948 64
	<hr/>
	\$458,340 73

Statement showing the amount paid into the city treasury during the same period on account of the several divisions of the Street Department:

Bridge Division	\$1,568 75
Boston and Cambridge Bridges	996 74
Ferry Division	171,454 23
Paving Division	56,647 41
Sanitary Division	35,640 33
Sewer Division	220,894 55
Street-Cleaning Division	1,788 01
Street-Watering	671 95
	<hr/>
	\$489,661 97

LAYING-OUT AND CONSTRUCTION OF HIGHWAYS.

From assessments on abutters for cost of sidewalk in front of their premises, chapter 401,

Acts 1892 . . . \$11,526 59

Interest on do. . . 3,106 53

\$14,633 12

Sewer assessments, chapter

402, Acts 1892 . . \$80,467 01

Interest on do. . . 12,809 83

93,276 84

Amount carried forward,

\$107,909 96

<i>Amount brought forward,</i>		\$107,909 96
Street construction, chapter		
323, Acts 1891, and		
amendments, assessments:		
Arundel street . . .	\$3,718 43	
Interest on do. . .	573 77	
	<hr/>	4,292 20
Batavia street . . .	\$11,466 02	
Interest on do. . .	2,413 54	
	<hr/>	13,879 56
Bay State road . . .	\$11,239 50	
Interest on do. . .	957 72	
	<hr/>	12,197 22
Granby street . . .	\$5,541 57	
Interest on do. . .	472 40	
	<hr/>	6,013 97
Greenbrier street . . .	\$593 23	
Interest on do. . .	46 70	
	<hr/>	639 93
Ivy street.	\$9,697 06	
Interest on do.	1,441 26	
	<hr/>	11,138 32
Miner street	\$364 30	
Interest on do.	182 16	
	<hr/>	546 46
Mountfort street . . .	\$3,227 23	
Interest on do.	491 72	
	<hr/>	3,718 95
Newbury street	\$655 45	
Interest on do.	904 42	
	<hr/>	1,559 87
Sherborn street	\$7,468 36	
Interest on do.	774 85	
	<hr/>	8,243 21
St. Germain street . . .	\$797 43	
Interest on do.	585 56	
	<hr/>	1,382 99
	<hr/>	<u>\$171,522 64</u>

BLUE HILL AND OTHER AVENUES.

Paving between railroad tracks	<u>\$2,288 85</u>
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PART II.

APPENDICES.

PAGES 1 TO 394.

APPENDIX A.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE BRIDGE DIVISION.

927 AND 928 TREMONT BUILDING,
BOSTON, February 1, 1898.

MR. BENJ. W. WELLS, *Superintendent of Streets*.

DEAR SIR: I respectfully submit my annual report of the expenditures, income and operation of the Bridge Division of the Street Department for the financial year ending January 31, 1898.

There was appropriated for the care and maintenance of this division, during the year, the sum of \$125,000.

The total number of bridges in Boston is 132. This number does not include culverts. Four (4) of these bridges, viz.: Harvard, Canal, Prison Point, and West Boston, all connecting with Cambridge, are under the care of two commissioners, one of whom is appointed by the city of Boston and the other by the city of Cambridge.

Thirty-three are wholly supported by railroad corporations, and ninety-nine are supported wholly or in part by the city of Boston.

There are twenty-three tide-water bridges provided with draws; six (6) of these are operated by steam, four (4) by electricity, and thirteen (13) by hand power.

Malden bridge, one of the principal bridges operated by hand power, is in immediate need of extensive repairs, as it is old and badly decayed, and requires constant care to keep it in order.

I would recommend also that steam or electric power be substituted to operate the draw.

Mt. Washington-avenue bridge is also operated by hand power, and is second, on the south side, in the number of openings to permit vessels to pass through, and has a large amount of travel, heavy teaming, etc.

It is hoped that with the extensive improvements in the vicinity of this bridge, provision will be made for its reconstruction.

There are twelve tide-water bridges of great importance, operated as follows: Meridian street, Chelsea (North), Dover street, and Federal street by steam power.

Chelsea (South), Warren, River, Congress street, L street, and Broadway by steam power.

Malden and Mt. Washington avenue by hand power.

During the past year four (4) new trucks have been placed on Warren bridge, new deck put in, sheathing, etc., all the ironwork painted, and the tracks levelled by placing oak sleepers two feet apart underneath. A new engine, with winches, for the purpose of assisting vessels to pass through the draw, thus saving much time to public travel, is being placed in position.

On May 21 a portion of Broadway pier, 118 feet long and 30 feet wide, fell into the water, carrying with it all cross beams and deck, and a large tool-house, necessitating the rebuilding of a new pile structure.

The remainder of the pier is in great need of being rebuilt, and should be attended to this year.

Congress-street bridge needed extensive repairs during the past year. The sidewalks on both sides have been reconstructed, the deck on road-bed, the bulkhead at the draw, and the fender-guards, etc., on the South Boston side, have been repaired.

Close attention should be given to the repairs of this bridge the coming year, owing to the immense increase of travel over the bridge, on account of the new freight facilities located at South Boston.

The following-named bridges were closed to public travel for reconstruction and extensive repairs:

May 4. Western-avenue bridge, new timbers, new deck and sheathing, new sidewalks and piling.

May 25. Leyden street, East Boston, ironwork scraped and painted, new deck and sheathing on road-bed, new sidewalks.

July 26. Blakemore street, new sidewalks.

August 10. Centre span on Beacon street, ironwork cleaned and painted; new timbers, deck and sheathing.

September 16. Shawmut avenue stripped of all old wood-work; iron girders properly cleaned and painted; about thirty iron braces removed and replaced with new ones; new deck and sheathing.

November 3. Keyes street, new timbers, new deck sheathing and new sidewalks.

November 9. Cornwall street, new timbers, deck sheathing and sidewalks.

November 29. Elmwood street being in such a bad condition new timbers for deck, sheathing and sidewalks were used.

December 23. Hyde Park avenue, new stone abutments; new timbers eight by sixteen inches, two feet apart on centre, new deck, sheathing and sidewalks, making a complete new bridge.

The inland bridges have been given a careful inspection and all efforts made to keep them in safe condition; they have been thoroughly swept and kept free and clean.

Good discipline has been maintained among the draw-tenders and their assistants on the different draw-bridges.

They have faithfully and efficiently performed their various duties, and no accidents have occurred through neglect of duty.

The material used in repairs has been of good quality, has always been promptly delivered, thereby causing no delay or disappointment in the performance of work.

The same care has been exercised to keep on hand duplicate sets of gearing.

This precaution will lessen public inconvenience in case of accidents.

I would call attention once more to the fact that more suitable headquarters be provided for the mechanical department in this division; would also recommend that the following-named bridges be provided with proper machinery to assist vessels through, and obviate largely the inconvenience to public travel. Chelsea (North), Dover street, Federal street, Mt. Washington avenue and Meridian street.

Table of expenditures on structural repairs of bridges charged to Bridge Division appropriation, which shows the large amount of work accomplished in excess of previous years:

Western avenue to Cambridge	\$1,744 83
Broadway pier	3,562 98
Beacon street (centre span)	1,150 00
Shawmut avenue	3,000 00
Essex street	903 85
	<hr/>
	\$10,361 66
	<hr/>

The sum of \$903.85, which was spent in construction of Essex-street bridge, was in excess of the amount appropriated for the same. This was contract work under the Engineering Department.

The following bridges were partially reconstructed and repaired, and charged to Special Appropriations:

Congress street, Cornwall street, Elmwood street, Hyde Park avenue, Keyes street, Leyden street, Warren avenue.

On April 21 a careful inspection of Longwood-avenue bridge was made by the Town Engineer of Brookline and this division.

It was thought expedient to close the bridge, and by mutual agreement of the town of Brookline and city of Boston the bridge was closed to the public, and work of constructing a new bridge commenced at once.

An appropriation of \$150,000 was made for this bridge, half of the expense, \$75,000, to be paid by the town of Brookline, and half by the city of Boston, Park Department.

A stone bridge is now in progress of erection in place of the old wooden affair, and when completed will be the finest in the city.

Respectfully yours,

WM. H. CARBERRY,

Deputy Superintendent.

OBJECT OF EXPENDITURES.

ADMINISTRATION.

Office expenses:

Printing	\$266 88	
Stationery and postage	129 67	
Office books	88 78	
Street Department, 1896 reports	118 15	
Telephone	168 70	
Subscription (newspapers)	10 50	
Directory	5 50	
Atlas (Brighton)	36 50	
Atlas (City Proper and Roxbury)	31 50	
Typewriter supplies	16 75	
Typewriter inspection	7 50	
Roster book and cards	14 00	
Advertising	12 25	
Hand stamps and repairs	9 65	
Typewriting and copying	16 28	
Albums for bridge views	7 65	
Sundry supplies	20 33	
		\$960 59
Salary of Deputy Superintendent		3,000 00
Salary of Chief Clerk and Messenger		2,855 55

Carried forward,

\$6,816 14

<i>Brought forward,</i>	\$6,816 14
Salary of Chief Drawtender	1,795 04
Salary of Chief of Draws and Bridges, 49 weeks	1,691 48
Travelling expenses	23 00
Board of Deputy Superintendent's horse and extra horse, and use of horse	513 68
Salary of Civil Service Clerk, 6 weeks	80 58
Salaries of special service clerks, 15 days each	120 00
Telephone, Deputy Superintendent's house	96 24
Amount expended, administration	<u>\$11,136 16</u>

OBJECT OF EXPENDITURES.

Office Expenses.

Salaries	\$9,542 65
General office expenditures	1,593 51
	<u>\$11,136 16</u>

TOTAL REGULAR EXPENDITURES.

Administration	\$11,136 16
On tide-water bridges	90,162 47
On inland bridges	12,227 21
North yard and stable	5,122 86
South yard and stable	8,133 57

Total amount expended for the year, February 1, 1897, to January 31, 1898	<u>\$126,782 27</u>
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FINANCIAL STATEMENT.

REGULAR APPROPRIATION.

Appropriation 1897-98	\$125,000 00
Received from Philadelphia and Reading Railway Company (damages to Chelsea [north] bridge)	702 53
Received from West End Street Railway Company for work done on Warren Bridge	180 00
Received from Paving Division for work done	103 96
Received from Street Cleaning Division for work done	148 99
Transferred from Surplus Revenue, January 31, 1898	646 79

Total	<u>\$126,782 27</u>
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Amount of expenditures from February 1, 1897, to January 31, 1898	<u>\$126,782 27</u>
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SPECIAL APPROPRIATIONS IN CHARGE OF BRIDGE DIVISION.

OBJECT OF APPROPRIATION.	Appropriations, Balances and Transfers.	Expended from Feb. 1, 1897, to Jan. 31, 1898.	Balances on hand Jan. 31, 1898.
Charles-river bridge draw, remodeling, etc.	\$407 04	\$407 04	
Chelsea bridge, north, rebuilding draw, etc.	3,030 54	3,030 54	
Gold-street bridge	127,223 38	27,223 38	
Harvard-street bridge, reconstruction	3,000 00	356 20	\$2,643 80
Leyden-street bridge, reconstruction	1,000 00	1,000 00	
Meridian-street bridge, reconstructing draw	1,833 61	1,833 61	
Reconstruction of Bridges	13,500 00	1,884 62	11,615 38
Reconstruction of Essex-street bridge	1,530 57	1,530 57	
Warren bridge, reconstruction	2,000 00	2,000 00	
Totals	\$53,525 14	\$39,265 96	\$14,259 18

¹\$6,000 to be provided for.

Amount of expenditures February 1, 1897, to January 31, 1898	\$39,265 96
Balances unexpended	14,259 18

Amount of appropriations and transfers	<u>\$53,525 14</u>
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AMOUNTS CHARGED TO SPECIAL APPROPRIATIONS IN CHARGE OF OTHER DIVISIONS.

NAME OF APPROPRIATION.	Where Expended.	Amount Expended.
Congress and L streets	Congress-street bridge ..	\$1,218 46
City Council, Incidental Expenses	Jeffries point, Public Landing	303 00
Laying-out and construction of highways	Ipswich street	4,922 86
Street Improvements, Ward 13	Broadway drawbridge ..	2,240 63
Street Improvements, Ward 25	Essex-street bridge	485 00
Stony-brook Improvement	Cornwall-street bridge, Elmwood-street bridge, Hyde Park-avenue bridge, Keyes-street bridge, Linden Park-street bridge	711 49
Total		\$9,878 44

Amount expended and charged to regular appropriation	\$126,782 27	
Amount expended and charged to Bridge Division, specials	39,265 96	✓
Amount expended and charged to appropriations in charge of other divisions	9,878 44	
	<hr/>	
Grand total of expenditures, February 1, 1897, to January 31, 1898	\$175,926 67	
	<hr/>	

INCOME.

The amount of bills deposited with the City Collector during the year was as follows :

Work done by this division	\$39 00	
Rent of land, buildings and pier	1,193 75	
Rent of buildings (leases)	300 00	✓
Rent for location of cable-houses and boxes	2,950 00	
	<hr/>	
Total	\$4,482 75	
	<hr/>	

A detailed statement of expenditures, and description of work performed follows; also a list of those bridges supported wholly or in part by the city of Boston; statement of the public landing-places; list of cable-houses and boxes; census of traffic taken on some of the most important bridges; number of draw openings made for navigation; width of draw openings, and table showing widths of bridges and kind of roadway and sidewalks. ✓

TIDE-WATER BRIDGES.

Broadway bridge (over Fort Point channel).

Patched deck in various places, patched sheathing in numerous places, under seventeen orders issued at different times, or practically sheathed the bridge. Built new steps leading to float stage. Extensive repairs made on pier and fender-guard, repaired engines, machinery and water-way and made general repairs; repaired water-supply pipe leading to engine-room, and painted machinery.

Carpenters	\$1,504 43
Painters	75 25
Lumber	676 27
Nails	30 87
Ironwork	86 84
Repairing engines	204 05
Repairing machinery	54 00
Hardware	3 45
Paint stock	18 80
	<hr/>

Carried forward, \$2,653 96

<i>Brought forward,</i>	\$2,653 96	
Plumbing	61 55	
Repairing iron fence	12 80	
Repairing pier	3,172 50	
Repairing end of pier and fender-guard	550 00	
Cement	2 40	
Views	6 00	
Advertising	4 25	
	<hr/>	\$6,463 46

Regular expenses :

Draw-tenders	\$5,499 00	
Substitutes	375 84	
Coal	225 04	
Gas	43 00	
Water	25 00	
Ice	6 00	
Small supplies	56 40	
	<hr/>	6,230 28

\$12,693 74

Cambridge-street bridge (from Brighton to Cambridge).

Sheathed draw, put on new flaps, repaired coal-box,
built out platform and repaired machinery.

Carpenters	\$36 25	
Lumber	23 99	
Nails	1 15	
Ironwork	7 50	
Repairing machinery	29 25	
	<hr/>	\$98 14

Regular expenses :

Draw-tender	\$365 56	
Coal	10 82	
Supplies	1 98	
	<hr/>	378 36

476 50

Charles-river bridge (from Boston to Charles-town.)

Sheathed draw, patched sheathing at six different
times, built new house, repaired engine, machin-
ery, gate, fence and fender-guard, put in oak
headers, reset buoy and stone, and painted new
house.

Carpenters	\$184 65	
Painters	36 44	
Lumber	119 65	
Nails	5 70	

Carried forward, \$346 44

\$13,170 24

<i>Brought forward,</i>	\$346 44	\$13,170 24
Ironwork	16 50	
Repairing machinery	135 73	
Repairing engine	13 65	
Hardware	3 47	
Paint stock	9 11	
Plumbing	11 95	
Repairing fender-guard	31 65	
Resetting buoy and stone	225 00	
Displacement of tide-water,	8 24	
	<hr/>	\$801 74

Regular expenses :

Draw-tenders	\$4,705 72	
Substitutes	187 50	
Coal	382 32	
Gas	41 13	
Water	25 00	
Cordage	60 36	
Ice	6 00	
Small supplies	55 62	
	<hr/>	5,463 65
		<hr/>
		6,265 39

Chelsea bridge [North] (over North channel, Mystic river).

Patched sheathing, repaired machinery and pier, put in new headers, repaired water-way, draw-tender's house and main water-supply pipe, and painted fence.

Carpenters	\$48 00	
Painters	52 48	
Lumber	2 68	
Ironwork	42 12	
Repairing machinery	19 42	
Paint stock	13 12	
Plumbing	6 50	
Repairing damage to pier	640 00	
Door	3 86	
Views	3 00	
	<hr/>	\$831 18

Regular expenses :

Draw-tenders	\$4,386 72	
Substitutes	90 00	
Coal	36 62	
Electric lights	46 00	
Water	10 00	
Ice	6 00	
Small supplies	41 85	
	<hr/>	4,617 19
		<hr/>
		5,448 37

Carried forward,

\$24,884 00

Brought forward,
Chelsea bridge, [South] (over South Channel,
 Mystic river).

\$24,884 00

Patched sheathing five different times, repaired
 motor, pier, water-way and iron fence, erected
 rain leader, shingled draw-house, and painted
 same and row-boat.

Carpenters	\$154 70
Painters	10 75
Lumber	65 13
Nails	3 10
Ironwork	37 05
Repairing machinery . .	84 38
Covering boiler . . .	74 75
Repairing iron fence . .	63 76
Paint stock	2 12
Rain leader	11 80
Painting boat	18 00

 \$525 54

Regular expenses :

Draw-tenders	\$4,396 27
Substitutes	57 50
Coal	199 61
Gas	28 04
Water	32 50
Ice	6 00
Hose	5 28
Chairs	6 00
Small supplies	38 40

 4,769 60

 5,295 14

Chelsea-street bridge (from East Boston to
 Chelsea).

Sheathed the bridge (East Boston end) and repaired
 ring bolts.

Carpenters	\$72 00
Lumber	173 43
Nails	8 25
Ironwork	1 35

 \$255 03

Regular expenses :

Draw-tender	\$299 00
Coal	7 36

 306 36

 561 39

Commercial Point or Tenean bridge, Dor-
 chester.

Patched deck and sheathing.

Carpenters	\$56 25
Lumber	91 93

Carried forward \$148 18

 \$30,740 53

<i>Brought forward,</i>	\$148 18	\$30,740 53
Nails	4 38	
Bolts and clamps	10 44	
	<hr/>	\$163 00
Regular expenses :		
Draw-tender	50 00	
	<hr/>	213 00

Congress-street bridge (over Fort Point channel).

Sheathed draw five times, patched sheathing in various places, repaired machinery, iron fence, corner of pier, centre, gate, fence rail and face boards, put in new headers. Repaired sidewalk and water-pipes and painted face boards.

Carpenters	\$961 15	
Painters	45 00	
Lumber	451 06	
Nails	23 53	
Ironwork	57 03	
Repairing machinery	266 59	
Hardware	3 65	
Paint stock	11 30	
Repairing iron fence	20 75	
Damage to tug	75 00	
Accident, cost of survey	5 00	
Teaming	50 00	
	<hr/>	\$1,970 06

Regular expenses :

Draw-tenders	\$5,284 24	
Substitutes	230 00	
Coal	271 70	
Water	107 25	
Repairing clock	5 00	
Ice	6 00	
Small supplies	67 07	
	<hr/>	5,971 26
		<hr/>

7,941 32

Dover-street bridge (over Fort Point channel).

Sheathed draw, patched sheathing, repaired waterway, pier, machinery, iron fence, commutator motor, water-pipes and painted motor-box.

Carpenters	\$219 77	
Painters	1 50	
Lumber	334 48	
Nails	15 92	
Ironwork	16 92	

Carried forward, \$588 59

\$38,894 85

<i>Brought forward,</i>	\$588 59	\$38,894 85
Repairing machinery	8 50	
Repairing iron fence	28 70	
Repairing motor, commuta- tor, etc.	35 27	
Plumbing	16 97	
	<hr/>	\$678 03

Regular expenses :

Draw-tenders	\$5,284 24	
Substitutes	171 25	
Coal	27 90	
Water	10 00	
Ice	6 00	
Small supplies	56 26	
	<hr/>	5,555 65
		<hr/>
		6,233 68

Essex-street bridge (from Brighton to Cambridge).

Sheathed draw and painted draw-house.

Carpenters	\$12 90
Painters	63 00
Lumber	23 87
Nails	1 14
Paint stock	15 75
Smokestack	11 00

Contract work, W. S. Rendle, amount in excess of special appropriation for reconstruction of Essex-street bridge, paid by Bridge Division

903 68
<hr/>
\$1,031 34

• Regular expenses :

Draw-tender	\$658 32	
Substitute	25 32	
Coal	20 64	
Small supplies	1 91	
	<hr/>	706 19
		<hr/>
		1,737 53

Federal-street bridge (over Fort Point channel).

Sheathed both roadways, patched sheathing, repaired water-pipe, machinery, gate, sidewalk and boat, reset buoy and painted bridge.

Carpenters	\$185 56
Painters	170 25
Lumber	115 63

<i>Carried forward,</i>	\$471 44
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\$46,866 06

<i>Brought forward,</i>	\$471 44	\$46,866 06
Nails	5 50	
Ironwork	17 11	
Repairing machinery	212 89	
Hardware	3 90	
Paint stock	40 00	
Plumbing	24 95	
Resetting buoy	75 00	
Repairing gate	21 30	
Hardwood rolls	9 00	
	<hr/>	\$881 09

Regular expenses ;		
Draw-tenders	\$5,284 24	
Substitutes	180 00	
Coal	47 15	
Gas	65 60	
Water	10 00	
Ice	6 00	
Small supplies	55 83	
	<hr/>	5,648 82
		<hr/>
		6,529 91

Granite bridge (from Dorchester to Milton).

Repaired sidewalk and fence and put on new flaps.

Carpenters	\$25 00	
Lumber	3 63	
Bolts and straps	9 95	
	<hr/>	\$38 58

Regular expenses :

Draw-tender	\$239 20	
Small supplies	1 50	
	<hr/>	240 70
		<hr/>
		279 28

L-street bridge (over reserved channel at junction of Congress and L streets).

Patched sheathing, put in new header on sidewalk and new davit, repaired engine, machinery and water-service pipe, erected new smoke-pipe and painted bridge.

Carpenters	\$103 45	
Painters	476 60	
Lumber	20 59	
Nails	96	
Ironwork	34 96	
Repairing engine	28 70	
Repairing machinery	26 95	
Paint stock	119 15	
	<hr/>	
<i>Carried forward,</i>	\$811 36	\$53,675 25

<i>Brought forward,</i>	\$811 36	\$53,675 25
Plumbing	90 89	
Smoke-pipe	19 50	
	<hr/>	\$921 75

Regular expenses :

Draw-tenders	\$4,019 76	
Substitutes	514 76	
Coal	226 95	
Water	79 50	
Ice	6 00	
Small supplies	51 85	
	<hr/>	4,898 82
		<hr/>
		5,820 57

Malden bridge (from Charlestown to Everett).

Repaired deck and patched sheathing eight different times, repaired headers, sidewalk and machinery, and put new clapboards on house, and painted house outside.

Carpenters	\$251 70	
Painters	84 75	
Lumber	50 43	
Nails	2 40	
Ironwork	11 92	
Repairing machinery .	71 20	
Hardware	2 46	
Paint stock	21 18	
Sheathing paper and strips,	2 54	
Two blinds	75	
	<hr/>	\$499 33

Regular expenses :

Draw-tenders	\$3,589 04	
Substitutes	110 00	
Coal	24 77	
Gas	23 38	
Water	17 00	
Clock	9 00	
Ice	6 00	
Small supplies	39 57	
	<hr/>	3,818 76
		<hr/>
		4,318 09

Meridian-street bridge (from East Boston to Chelsea).

Patched sheathing, repaired stable, water-way, headers, sidewalk, shaft and gears, put in new gears and new headers, reset buoy, put in new gas fixtures and repaired pipes, and painted house inside.

Carpenters	\$130 50	
Painters	20 50	
	<hr/>	
<i>Carried forward,</i>	\$151 00	\$63,813 91

<i>Brought forward,</i>	\$151 00	\$63,813 91
Lumber	17 97	
Nails	88	
Ironwork	39 30	
Gear castings	110 59	
Resetting buoy	75 00	
Repairing shaft and gears	64 03	
Plumbing	25 10	
Paint stock	5 12	
Repairing stove	13 75	
Repairing roof	15 00	
Electric lamps	9 63	
	<hr/>	\$527 37
Regular expense :		
Draw-tenders	\$4,386 72	
Substitutes	168 30	
Coal	28 66	
Feed	94 98	
Gas	56 61	
Water	10 00	
Horseshoeing	34 25	
Ice	6 00	
Small supplies	43 34	
	<hr/>	4,828 86
		<hr/>
		5,356 23

Mt. Washington-avenue bridge (over Fort Point channel).

Sheathed draw, patched deck and sheathing at various times, repaired latch, water-way, ring-bolt, wheel-guard and sidewalk, put in headers, new sink, faucet, etc., and painted small part of fence.

Carpenters	\$529 88	
Painters	21 26	
Lumber	216 91	
Nails	10 32	
Ironwork	40 96	
Paint stock	5 31	
Plumbing	32 73	
	<hr/>	\$857 37

Regular expenses :	
Draw-tenders	\$4,269 60
Substitutes	352 93
Coal	51 74
Gas	49 30
Water	10 00
Rent of land	60 00

<i>Carried forward,</i>	\$4,793 57	\$857 37	\$69,170 14
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<i>Brought forward,</i>	\$4,793 57	\$857 37	\$69,170 14
Ice	6 00		
Small supplies	42 13		

\$4,285 41.70

5,699 07

Neponset bridge (from Dorchester to Quincy).
Sheathed draw, patched sheathing and put in new header.

Carpenters	\$101 80		
Lumber	89 61		
Nails	4 27		
Bolts and washers	14 80		
	<u> </u>	\$210 48	

Regular expenses :

Draw-tender	\$398 84		
Small supplies	1 83		
	<u> </u>	400 67	

611 15

North Beacon-street bridge (from Brighton to Watertown).

Sheathed draw, patched sheathing several times and repaired sidewalk.

Carpenters	\$81 95		
Watchman	26 60		
Lumber	113 95		
Nails	5 42		
Ironwork	8 30		
	<u> </u>	\$236 22	

Regular expenses :

Draw-tender	74 88		
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311 10

North Harvard-street bridge (from Brighton to Cambridge).

Patched sheathing, repaired fence, latch and hinge, put in new flap and crank handle, and built out platform.

Carpenters	\$80 30		
Lumber	64 79		
Nails	3 08		
Crank handle	3 00		
Bolts and clamp	15 58		
	<u> </u>	\$166 75	

Regular expenses :

Draw-tender	\$365 56		
Repairing stove	4 20		
	<u> </u>	369 76	

536 51

Carried forward,

\$76,327 97

Brought forward,

\$76,327 9

Warren bridge (from Boston to Charlestown).

Patched sheathing fifteen different times, and old deck during the year, repaired end of draw, pier, boat, fence, gas fixtures, engines and machinery. Put in new hard pine deck and sheathed downstream draw, calked the deck on both draws, put in three trucks and painted ironwork on draw and also bridge.

Carpenters	\$920 32	
Painters	431 81	
Lumber	692 38	
Nails	35 85	
Ironwork	56 01	
Repairing engines . .	29 78	
Repairing machinery .	175 26	
Hardware	8 23	
Paint stock	44 63	
Calking decks on each draw	370 00	
Repairing trucks . .	115 40	
Damage to barge . .	43 14	
Repairing gas fixtures .	14 15	
Teaming	27 00	
	<hr/>	\$2,963 96

Regular expenses :

Draw-tenders	\$5,284 24	
Substitutes	217 50	
Coal	603 11	
Gas	45 54	
Water	25 00	
Ice	6 00	
Watering	470 00	
Small supplies	48 61	
	<hr/>	6,700 00
		<hr/>

9,663 96

Western-avenue bridge (from Brighton to Cambridge).

Put in new deck on draw and sheathed the same, patched sheathing, put in new flaps, built new sidewalk, repaired machinery, removed old pier and painted bridge.

Carpenters	\$388 00
Painters	53 13
Lumber	525 70
Nails	17 00
Ironwork	20 40
Paint stock	13 25

Carried forward, \$1,017 48

\$85,991 93

<i>Brought forward,</i>	\$1,017 48	\$85,991 93
Repairing machinery . . .	114 85	
Removing old pier . . .	275 75	
	<hr/> \$1,408 08	
Regular expenses :		
Draw-tender	\$365 56	
Coal	5 41	
	<hr/> 370 97	
		<hr/> 1,779 05

Western-avenue bridge (from Brighton to Watertown).

Patched sheathing, sheathed draw, put in oak headers, repaired machinery and painted fence.

Carpenters	\$100 65	
Painters	11 00	
Lumber	113 37	
Ironwork	5 57	
Repairing machinery . . .	10 25	
Nails	5 40	
Paint stock	2 75	
	<hr/> \$248 99	

Regular expenses :		
Draw-tender	\$74 88	
Oil-can	1 00	
	<hr/> 75 88	
		<hr/> 324 87

Winthrop bridge (from Breed's Island to Winthrop).

Patched sheathing four times, and painted fence.

Carpenters	\$43 75	
Painters	10 50	
Lumber	41 99	
Nails	2 00	
Paint stock	2 65	
	<hr/> \$100 89	

Regular expenses :		
Draw-tender	100 00	
	<hr/> 200 89	

Sundry Expenditures on tide-water bridges.

Oak lumber for headers . .	\$194 90	
Sundry car-fares, West End St. Railway (mechanics),	150 00	
Sundry Street Department tickets, N. Y., N. H. & H. R. R. (mechanics) . . .	20 00	
	<hr/>	

<i>Carried forward,</i>	<hr/> \$364 90	<hr/> \$88,296 74
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<i>Brought forward,</i>	\$364 90	\$88,296 74
Regular expenses :		
Messenger to Chief Draw-		
tender	\$797 68	
Draw-tenders' books	99 75	
	<hr/>	
	897 43	
	<hr/>	1,262 33
Public landings.		
Repairs.		
Jeffries Point :		
Demolished float.		
Carpenters	\$219 00	
Watchman	55 00	
Drift bolts, chisels and		
wedges, and repairs on		
same	25 90	
Teaming	3 50	
	<hr/>	
	\$303 40	
Regular expenses :		
East Boston :		
Rent	\$250 00	
Watchman	50 00	
	<hr/>	
	300 00	
	<hr/>	603 40
		<hr/>
Total expended on tide-water bridges		<u>\$90,162 47</u>

RECAPITULATION.

Table showing Expenditures on the Tide-water Bridges for the Year February 1, 1897, to January 31, 1898.

NAME OF BRIDGE.	Repairs, Labor, Lumber, Ironwork and Painting.	Regular Ex- penses, Salaries, Fuel and Supplies.	Total.
Broadway.....	\$6,463 46	\$6,230 28	\$12,693 74
Cambridge street.....	98 14	378 36	476 50
Charles river.....	801 74	5,463 65	6,265 39
Chelsea (North).....	831 18	4,617 19	5,448 37
Chelsea (South).....	525 54	4,769 60	5,295 14
Chelsea street.....	255 03	306 36	561 39
Commercial point.....	163 00	50 00	213 00
Congress street	1,970 06	5,971 26	7,941 32
Dover street	678 03	5,555 65	6,233 68
Essex street	1,031 34	706 19	1,737 53
Federal street.....	881 09	5,648 82	6,529 91
Granite	38 58	240 70	279 28
L street	921 75	4,898 82	5,820 57
Malden.....	499 33	3,818 76	4,318 09
Meridian street	527 37	4,828 86	5,356 23
Mt. Washington avenue.....	857 37	4,841 79	5,699 07
Neponset.....	210 48	400 67	611 15
North Beacon street	236 22	74 88	311 10
North Harvard street.....	166 75	369 76	536 51
Warren	2,963 96	6,700 00	9,663 96
Western avenue (to Cambridge)....	1,408 08	370 97	1,779 05
Western avenue (to Watertown)....	248 99	75 88	324 87
Winthrop	100 89	100 00	200 89
Sundry expenditures.....	364 90	897 43	1,262 33
Public landings.....	303 40	300 00	603 40
Totals.....	\$22,546 68	\$67,615 79	\$90,162 47

INLAND BRIDGES.

Albany-street bridge (over Boston and Albany Railroad).

Patched sheathing.

Carpenters	.	.	.	.	.	\$2 20
Lumber	.	.	.	.	.	4 09
Nails	.	.	.	.	.	19

 \$6 48
Allston bridge (over Boston and Albany Railroad, at Cambridge street).

Patched sheathing twice.

Carpenters	.	.	.	.	.	\$36 25
Lumber	.	.	.	.	.	88 02
Nails	.	.	.	.	.	4 19

 128 46
Ashland-street bridge (over New York, New Haven & Hartford Railroad, Providence Division).

Sheathed the bridge and repaired fence.

Carpenters	.	.	.	.	.	\$43 30
Lumber	.	.	.	.	.	83 67
Nails	.	.	.	.	.	4 19

 131 16
Beacon-street bridge (over Boston and Albany Railroad).

Reconstructed centre roadway by putting in new beams, new deck and sheathing, and cleaning and painting ironwork, also painted the entire bridge.

Carpenters	.	.	.	.	.	\$376 15
Painters	.	.	.	.	.	738 82
Flagman	.	.	.	.	.	34 25
Lumber	.	.	.	.	.	491 04
Nails	.	.	.	.	.	23 38
Bolts	.	.	.	.	.	2 10
Repairing hammers	.	.	.	.	.	3 50
Paint stock	.	.	.	.	.	254 40
Views	.	.	.	.	.	2 00

 1,925 64
Beacon-street bridge (over water-way).

Sheathed the bridge and built new sidewalk, also repaired sheathing and sidewalk.

Carpenters	.	.	.	.	.	\$109 05
Lumber	.	.	.	.	.	101 15
Nails	.	.	.	.	.	4 81

 215 01
Carried forward,

 \$2,406 75

<i>Brought forward,</i>		\$2,406 75
Beech-street culvert (near Anawan avenue, West Roxbury).		
Patched sheathing.		.
Carpenters		2 50
Berkeley-street bridge (over Boston & Albany Railroad).		
Patched deck and sheathing.		
Carpenters	\$54 50	
Lumber	41 57	
Nails	1 98	
		98 05
Berkeley-street bridge (over New York, New Haven & Hartford Railroad, Providence Division).		
Patched deck and sheathing four times.		
Carpenters	\$43 75	
Lumber	75 20	
Nails	3 58	
		122 53
Blakemore-street bridge (over New York, New Haven & Hartford Railroad, Providence Division).		
Built two new sidewalks.		
Carpenters	\$131-13	
Lumber	73 26	
Nails	3 51	
		207 90
Bolton-street bridge (over New England Railroad).		
Reconstructed bridge, new beams, new deck, sidewalks and fence.		
Carpenters	\$70 25	
Lumber	76 21	
Nails	3 63	
Bolts	6 96	
		157 05
Boylston-street bridge (over Boston & Albany Railroad).		
Patched sheathing.		
Carpenters	\$12 50	
Nails	60	
		13 10
<i>Carried forward,</i>		\$3,007 88

Brought forward,

\$3,007 88

Broadway-bridge (over Boston and Albany Railroad).

Put in new beam 16 feet long, replaced deck, patched sheathing, repaired fence, and painted bridge.

Carpenters	\$80 65
Painters	105 00
Lumber	147 73
Nails	7 05
Paint stock	25 95
Repairing iron fence	21 06

 387 44

[Portion of labor paid in 1896.]

Brookline-avenue bridge (over Boston & Albany Railroad).

Sheathed one side.

Carpenters	\$20 90
Lumber	79 23
Nails	3 77

 103 90

[Portion of labor paid in 1896.]

Byron-street bridge (over Boston, Revere Beach and Lynn Railroad).

Patched sheathing.

Carpenters	\$3 75
Lumber	3 50

 7 25
Central-avenue bridge (from Dorchester to Milton, over Neponset river).

Built new sidewalk.

Carpenters	\$31 40
Lumber	38 00
Nails	1 81

 71 21
Columbus-avenue bridge (over Boston and Albany Railroad).

Patched sheathing four times and painted bridge.

Carpenters	\$132 95
Painters	241 25
Lumber	57 54
Nails	2 74
Paint stock	60 30
Paint brushes	1 16
Cutting off post bracket	2 25

 498 19
Carried forward,

 \$4,075 87

Brought forward,
Cottage-street [foot] bridge (over flats, East Boston).

\$4,075 87

Bridge-tender	\$686 00
Repairing stove	7 35
Coal	9 56
Ice	6 00

708 91

Dartmouth-street bridge (over Boston and Albany, and Providence Division of New York, New Haven & Hartford Railroad).

Sheathed both roadways, repaired fence and sidewalk and painted bridge.

Carpenters	\$113 20
Painters	349 69
Lumber	180 27
Nails	8 88
Repairing iron fence	10 85
Paint stock	55 96
Bolts	70

719 55

Dorchester-street bridge (over New York, New Haven & Hartford Railroad, Plymouth Division).

Paid New York, New Haven & Hartford Railroad Company for small repairs, painting and sheathing, city's part

18 49

Ferdinand-street bridge (over Boston and Albany Railroad).

Patched deck and sheathing twice.

Carpenters	\$13 90
Lumber	67 29
Nails	3 20

84 39

Gardner-street culvert (near Cow Island, West Roxbury).

Patched deck and sheathing.

Carpenters	\$5 00
Lumber	4 71

9 71

Irvington-street [foot] bridge (over New York, New Haven and Hartford Railroad, Providence Division).

Repaired steps.

Carpenters	1 25
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Carried forward,

\$5,618 17

Brought forward,

\$5,618 17

Leyden-street bridge (over Boston, Revere Beach and Lynn Railroad).

Put in new deck and sheathed the same.

Carpenters	.	.	.	.	.	\$113 50
Watchman	.	.	.	.	.	15 00
Lumber	.	.	.	.	.	80 43
Nails	.	.	.	.	.	31 70

240 63

[Balance of work done charged to Special appropriation.]

Linden Park-street bridge (over Stony brook).

Patched deck, sheathing and sidewalk.

Carpenters	.	.	.	.	.	\$2 50
Lumber	.	.	.	.	.	1 99

4 49

Longwood-avenue bridge (from Roxbury to Brookline).

Patched deck, sheathing and fence.

[Roadway closed to travel part of the year.]

Watchman	.	.	.	.	.	\$110 25
Carpenters	.	.	.	.	.	11 75
Views	.	.	.	.	.	3 00
Lumber	.	.	.	.	.	89
Nails	.	.	.	.	.	56

126 45

Massachusetts-avenue bridge (over Boston & Albany Railroad).

Sheathed one side and patched the other.

Carpenters	.	.	.	.	.	\$44 75
Lumber	.	.	.	.	.	99 40
Nails	.	.	.	.	.	4 74

148 89

Massachusetts-avenue bridge (over New York, New Haven & Hartford Railroad, Providence Division).

Sheathed roadways.

Carpenters	.	.	.	.	.	\$54 20
Lumber	.	.	.	.	.	72 94
Nails	.	.	.	.	.	3 47

130 61

Mattapan bridge (from Dorchester to Milton).

Sheathed bridge and repaired sidewalk.

Carpenters	.	.	.	.	.	\$7 91
Lumber	.	.	.	.	.	18 99

26 90

[Nails taken from yard.]

Carried forward,

\$6,296 14

Brought forward,

\$6,296 14

Shawmut-avenue bridge (over Boston & Albany Railroad).

Repaired girders, cross-braces, etc., put in new angle irons where needed, and made general repairs. Laid new deck on roadway, and sheathed the same and painted all ironwork.

Carpenters	\$615 54
Painters	1,669 52
Watchman	165 40
Flagman	82 00
Lumber	370 51
Nails	21 34
Angle iron, rivets, etc., and labor at bridge	119 05
Bolts, washers, iron plates and repairing hammers and scrapers	61 17
Paint-stock	142 54
Teaming	6 00
Views	2 00

 3,255 07
Spring-street bridge (from West Roxbury to Dedham, over Charles river).

Repaired picket fence.

Lumber	\$1 60
Nails	20

 1 80
Swett-street bridge (east of New England Railroad).

Put in new post, repaired fence and sidewalk.

Carpenters	\$52 75
Lumber	50 31
Bolts	7 32
Nails	2 40

 112 78
Swett-street bridge (west of New England Railroad).

Patched deck and sheathing and repaired sidewalk.

Carpenters	\$19 00
Lumber	12 16
Nails*	53

 31 69
Carried forward,

 \$9,697 48

Brought forward,

\$9,697 48

West Fourth-street bridge (over New York, New Haven & Hartford Railroad, Plymouth Division).

Sheathed portion of roadway and patched sheathing, also cut four openings in iron fence.

Carpenters	\$87 30
Lumber	173 86
Nails	8 28
Cutting openings in fence	64 70

334 14

West Newton-street bridge (over New York, New Haven & Hartford Railroad, Providence Division).

Sheathed roadways and painted bridge.

Carpenters	\$46 30
Painters	50 00
Lumber	66 14
Nails	3 15
Paint stock	12 50

178 09

West Rutland square [foot] bridge (over New York, New Haven & Hartford Railroad, Providence Division).

Built four new flights of steps.

Carpenters	\$119 75
Lumber	30 70
Nails	1 47
Bolts	2 75

154 67

Sundry expenditures, on inland bridges.

Labor, on snow	\$526 33
Labor, cleaning bridges	965 55
Teaming sweepings	6 75
Sundry car-fares, West End Street Railway (mechanics)	100 00
Sundry Street Department tickets, New York, New Haven & Hartford Railroad (mechanics)	11 25

1,609 88

Atlantic avenue (near Central Wharf).

Repaired sidewalk and fence.

Carpenters	\$52 25
Lumber	40 51
Bolts, rods, etc.	11 20
Work done for Paving Division	— —

103 96

Carried forward,\$12,078 22

Brought forward,

\$12,078 22

Federal-street bridge.

Built fender-guard for snow dump.

Carpenters \$15 00

Lumber furnished by Street Cleaning
Division.**North Grove-street stable.**

Repaired stable.

Carpenters \$56 25

Lumber 53 74

Nails 1 50

111 49**Revere-street sea wall.**

Built fender-guard for snow dump.

Carpenters 22 50

\$148 99Lumber, bolts, etc., furnished by Street
Cleaning Division.

Work done for Street Cleaning Division 148 99

Total expended on inland bridges \$12,227 21

RECAPITULATION.

Table showing Expenditures on the Inland Bridges for the Year, February 1, 1897, to January 31, 1898.

Name of Bridge.	Repairs, Labor, Lumber, Ironwork and Painting.
Albany street	\$6 48
Allston	128 46
Ashland street	131 16
Beacon street (over B. & A. Railroad)	1,925 64
Beacon street (over water-way)	215 01
Beech street (culvert)	2 50
Berkeley street (over B. & A. Railroad)	98 05
Berkeley street (over Providence Division)	122 53
Blakemore street	207 90
Bolton street	157 05
Boylston street (over B. & A. Railroad)	13 10
Broadway (over B. & A. Railroad)	387 44
Brookline avenue	103 90
Byron street	7 25
Central avenue	71 21
Columbus avenue	498 19
Cottage street	708 91
Dartmouth street	719 55
Dorchester street	18 49
Ferdinand street	84 39
Gardner street (culvert)	9 71
Irvington street	1 25
Leyden street	240 63
Linden Park street	4 49
Longwood avenue	126 45
Massachusetts avenue (over B. & A. Railroad)	148 89
Massachusetts avenue (over Providence Division)	130 61
Mattapan	26 90
Shawmut avenue	3,255 07
Spring street	1 80
Swett street (east)	112 78
Swett street (west)	31 69
West Fourth street	334 14
West Newton street	178 09
West Rutland square	154 67
Sundry expenditures	1,609 88
Work done for Paving Division	103 96
Work done for Street Cleaning Division	148 99
Total	<u>\$12,227 21</u>

REGULAR MAINTENANCE EXPENSES AT NORTH AND SOUTH YARDS.

NORTH YARD, DISTRICT NO. 1.

Warren Bridge.

Messengers	\$1,518 65	
Watchman	686 00	
Boys	303 45	
Tools for carpenters	20 76	
Tools for painters	3 32	
Gas	29 53	
Telephone	126 75	
Kerosene oil	9 76	
Water	25 00	
Ice	6 00	
Street horses	7 48	
Wedges	3 50	
Small supplies	17 04	
	<hr/>	\$2,757 24

STABLE, DISTRICT NO. 1.

Warren Bridge.

Teamster	\$740 00	
Hostler	672 00	
Stable boy	269 50	
Feed	249 53	
Bay Gelding No. 602.	125 00	
Repairing buggy	15 69	
Repairing harness	42 75	
Horseshoeing	181 50	
Veterinary service	30 00	
Wagon jack	2 75	
Small supplies	36 90	
	<hr/>	2,365 62

Total expended, North Yard and Stable .	<u>\$5,122 86</u>
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SOUTH YARD, DISTRICT NO. 2.

No. 45 Foundry Street.

Messengers	\$1,503 31	
Watchman	686 00	
Lumber measurer (16 weeks)	240 00	
Boys	673 75	
Tools for carpenters	52 36	
Tools for painters	129 30	
	<hr/>	

Carried forward,

\$3,284 72

<i>Brought forward,</i>		\$3,284 72
Telephone	133 90	
Hardware	7 42	
Coal	18 36	
Water	10 00	
Traffic account	38 50	
Plumbing	8 20	
Sand-box	26 80	
Lanterns	15 92	
Ice	6 00	
Small supplies	32 48	
	<hr/>	\$3,582 30

STABLE, DISTRICT NO. 2.

No. 135 Dorchester Avenue.

Teamster	\$870 00	
Stable boy	640 35	
Board of horses	1,487 50	
Repairing wagon	27 25	
Repairing buggies	195 75	
Repairing vehicles by Sanitary Division	138 77	
Veterinary service	106 25	
Repairing harness	35 55	
New harness	60 00	
Clipping horse	2 00	
Horseshoeing	205 00	
Rent of old stable, one month	50 00	
Concord wagon	135 00	
Second-hand box buggy	115 00	
New cut under buggy	300 00	
Dark chestnut mare No. 642	115 00	
Use of buggy	15 00	
Robes	16 25	
Wagon cushion	10 00	
Supplies	26 60	
	<hr/>	4,551 27

Total expended, South Yard and Stable. . . \$8,133 57

SPECIAL APPROPRIATIONS.

IN CHARGE OF BRIDGE DIVISION.

Charles-river bridge, draw, remodelling, etc.
(Boston to Charlestown).

Repaired stable.

Carpenters	\$319 08
Lumber	83 38
Nails and hardware	4 58

Total expended January 31, 1898 . . . \$407 04

[Appropriation \$407.04.]

Chelsea bridge [North], rebuilding draw, etc.
(over North channel, Mystic river).

Sheathed the draw, repaired pier, completed additions to draw machinery caused by changing motive power to electricity, and painted bridge and draw-tenders' house outside.

Carpenters	\$1,680 62
Painters	663 32
Lumber	164 86
Two mitre gears	50 00
Fitting new bed plate, taking out old gears and fitting new ones	65 34
Stock and labor squaring gears	16 80
Repairing motor	210 51
Rewinding spare armature	74 44
Displacement of tide-water	23 25
Bolts and straps	56 40
Car fares	25 00

Total expended January 31, 1898	\$3,030 54
May, 1897, transferred to Warren Bridge, reconstruction	2,000 00

Appropriation	<u>\$5,030 54</u>
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Gold-street bridge (over New England Railroad).

Raising grade of street near the bridge.

Perry heirs, grade damages	\$7,500 00
John Hayes, "	1,950 00
Bernard J. Reagan, "	200 00
Mary Sullivan, "	3,000 00
Edward J. Leary, "	415 00
Julia Curry <i>et als</i> , "	9,635 10
Mary F. Corbett, "	2,901 86

Filling and rolling Gold street, between B street and New England

Railroad	493 85
Work on buildings	66 41
Filling	582 00
Paving Division pay-rolls	476 66
Engineers' pay-roll	2 50

Total expended January 31, 1898,	<u>\$27,223 38</u>
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Balance January 31, 1897	\$18,569 33
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January, 1898, transferred from Surplus Revenue,	2,654 05
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To be provided for in 1898	<u>6,000 00</u>
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Expended	<u>\$27,223 38</u>
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Harvard-street bridge, reconstruction (over New England Railroad).

Constructing new sidewalk at side of, and in addition to, old bridge.

Carpenters	\$167 71	
Lumber	59 61	
Repairing bridge, sidewalk girders, etc.	118 48	
Bolts	9 40	
Paid New England Railroad for privilege	1 00	
		<hr/>
Total expended January 31, 1898,		\$356 20
Balance		2,643 80
		<hr/>
Appropriation		<u>\$3,000 00</u>

Leyden-street bridge, reconstruction (over Boston, Revere Beach & Lynn Railroad).

Put in new deck, sheathed the same, laid new sidewalk and painted bridge.

Carpenters	\$476 61	
Painters	310 17	
Lumber	124 22	
Paint-oil mixer	39 00	
Car fares	50 00	
		<hr/>
Total expended January 31, 1898		<u>\$1,000 00</u>
[Appropriation \$1,000.]		

Balance of expense paid out of regular appropriation.

Meridian-street bridge, reconstructing draw (from East Boston to Chelsea).

Repaired draw machinery and patched sheathing.

Repairing draw machinery, new bolts, washers, straps, rack-plates, shafts, gears, etc. \$1,780 51

Carpenters 53 10

Total expended January 31, 1898	\$1,833 61	
April, 1897, transferred to Leyden-street bridge, reconstruction	1,000 00	
		<hr/>
Appropriation		<u>\$2,833 61</u>

RECONSTRUCTION OF BRIDGES.

Beacon-street bridge (over Boston & Albany Railroad).

Reconstructed Westerly roadway, new beams, new deck and sheathing, cleaned and painted all ironwork.

Carpenters	.	.	.	.	.	\$643	00
Painters	.	.	.	.	.	152	50

\$795 50

[Not completed.]

Congress-street bridge (over Fort Point channel).

Repaired deck under roadway, also sidewalk.

Carpenters	545	18
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[Not completed.]

Hyde Park-avenue bridge (over Stony brook).

Built new bridge.

Carpenters	543	94
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[Not completed.]

Total expended January 31, 1898.	.	\$1,884	62
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Balance	11,615	38
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Appropriation	\$13,500	00
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Reconstruction of Essex-street bridge (from Brighton to Cambridge).

Contract with Wm. S. Rendle, making repairs.

Part payment of second and final esti-

mate	\$1,446	57
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Inspector	84	00
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Total expended January 31, 1898.	.	\$1,530	57
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[Appropriation \$1,530.57.]

[Balance of final estimate or \$903.68 was paid out of regular appropriation.]

Warren bridge, reconstruction (from Boston to Charlestown).

Decked and sheathed up-stream draw, repaired guard and painted ironwork.

Carpenters	\$442	13
------------	---	---	---	---	---	-------	----

Painters	314	10
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Lumber	418	77
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Carried forward,

\$1,175 00

<i>Brought forward,</i>		\$1,175 00
Car fares	\$25 00	
Pulling ten old piles, refitting ten spur-shores, hard pine and iron to recap guard and furnishing and driving eleven oak piles	800 00	
	<hr/>	
Total expended January 31, 1898		<u>\$2,000 00</u>

[Appropriation \$2,000.]

AMOUNTS CHARGED TO SPECIAL APPROPRIATIONS IN CHARGE OF OTHER DIVISIONS.

Congress-street bridge (over Fort Point channel).

Repaired and built sidewalk on South Boston end and sheathed draw.

Carpenters	\$542 94
Lumber (nails from yard)	363 67
Laying 4-inch tar concrete sidewalk, 3 layers	311 85
	<hr/>

Charged to Congress and L streets \$1,218 46

Jeffries Point. Public Landing, East Boston.

Use of wharf, fitting up raft and placing same in position, and furnishing chains for the year 1897.

Charged to City Council, Incidental Expenses \$300 00

Ipswich-street bridge (over water-way).

First approximate estimate of work done and material furnished on retaining-walls, abutments and piers by Holbrook, Cabot & Daly, under contract dated November 29, 1897.

Charged to Laying out and construction of Highways \$4,922 86

Broadway Bridge (over Fort Point channel).

Reconstructed the draw, completing work commenced in 1896.

Repairing draw machinery, angles, pipe, etc.	\$243 36
Ironwork, bolts, dogs, straps, etc.	84 23
Lag screws, bolts, washers, augers, etc.	23 16
Repairing iron fence on draw	276 48
Teaming	22 50
Spikes and nails	41 60
	<hr/>

Carried forward, \$691 33

<i>Brought forward,</i>		\$691 33
Paint, lead and oil	\$99 41	
Lumber	1,191 03	
Calking deck	258 86	
		<hr/>
Charged to Street Improvements, Ward 13 . . .		\$2,240 63
<hr/>		
Essex-street bridge (from Brighton to Cambridge).		
Contract for additions to draw-tenders' house, and extra work allowed.		
Charged to Street Improvements, Ward 25 . . .		\$485 00
<hr/>		
Cornwall-street bridge (over Stony brook).		
Put in new deck and sheathed the same.		
Carpenters	\$78 18	
Nails	3 80	
		<hr/>
		\$81 98
[Not completed].		
Elmwood-street bridge (over Stony brook).		
Patched deck, sheathed, and repaired sidewalk.		
Carpenters	\$134 43	
Lumber	125 69	
Bolts	3 75	
		<hr/>
		263 87
[Not completed.]		
Hyde Park-avenue bridge (over Stony brook).		
Built new bridge.		
Carpenters		87 55
(Labor also charged to Reconstruction of Bridges).		
[Not completed.]		
Keyes-street bridge (over Stony brook.)		
Put in new deck and sheathed the same.		
Carpenters	\$115 76	
Nails	7 40	
Bolts	1 00	
		<hr/>
		124 16
[Not completed.]		
Linden Park-street bridge (over Stony brook).		
Patched deck and sheathed same.		
Carpenters	\$83 98	
Lumber	61 80	
Nails	5 40	
Bolts	2 75	
		<hr/>
		153 93
<hr/>		
Charged to Stony brook Improvement		\$711 49
		<hr/>

LIST OF BOSTON BRIDGES.

I. — BRIDGES WHOLLY SUPPORTED BY BOSTON.

[In the list those marked with an asterisk (*) are over navigable waters, and are each provided with a draw.]

In charge of Bridge Division.

Allston, over Boston & Albany Railroad at Cambridge street, Brighton.

Ashland street, over N. Y., N. H. & H. Railroad, Providence Division, West Roxbury.

Athens street, over New England Railroad.

Baker street, at Brook farm, West Roxbury.

Beacon street, over outlet to Back Bay Fens.

Beacon street, over Boston & Albany Railroad.

Berkeley street, over Boston & Albany Railroad.

Berkeley street, over N. Y., N. H. & H. Railroad, Providence Division.

Berwick park (foot bridge), over N. Y., N. H. & H. Railroad, Providence Division.

Blakemore street, over N. Y., N. H. & H. Railroad, Providence Division.

Bolton street, over New England Railroad.

Boylston avenue, over Stony brook, West Roxbury.

Boylston street, over Boston & Albany Railroad.

*Broadway, over Fort Point channel.

Broadway, over Boston & Albany Railroad.

Brookline avenue, over Boston & Albany Railroad.

Byron street, over Boston, Revere Beach & Lynn Railroad.

*Charles river, from Boston to Charlestown.

*Chelsea (South), over south channel, Mystic river.

*Chelsea street, from East Boston to Chelsea.

Columbus avenue, over Boston & Albany Railroad.

*Commercial Point, or Tenean, Dorchester.

*Congress street, over Fort Point channel.

Cornwall street, over Stony brook, West Roxbury.

Cottage Farm, over Boston & Albany Railroad, at Commonwealth avenue.

Cottage street (foot-bridge), over flats, East Boston.

Dartmouth street, over Boston & Albany, and Providence Division of N. Y., N. H. & H. Railroad.

*Dover street, over Fort Point channel.

Elmwood street (private way), over Stony brook, Roxbury.

*Federal street, over Fort Point channel.

Ferdinand street, over Boston & Albany Railroad.

Florence street, over Stony brook, West Roxbury.

Gold street (foot-bridge), over New England Railroad.

Huntington avenue, over Boston & Albany Railroad.
Hyde Park avenue, over Stony brook, West Roxbury.
Irvington street (foot-bridge), over N. Y., N. H. & H. Railroad,
Providence Division.
Keyes street, over Stony brook, West Roxbury.
*L street, over reserved channel at junction of Congress and L
streets.
Leyden street, over Boston, Revere Beach & Lynn Railroad.
Linden Park street, over Stony brook, Roxbury.
*Malden, from Charlestown to Everett.
Massachusetts avenue, over Boston & Albany Railroad.
Massachusetts avenue, over N. Y., N. H. & H. Railroad, Provi-
dence Division.
*Meridian street, from East Boston to Chelsea.
*Mt. Washington avenue, over Fort Point channel.
Shawmut avenue, over Boston & Albany Railroad.
Swett street, east of New England Railroad.
Swett street, west of New England Railroad.
Texas street, over Stony brook, Roxbury.
*Warren, from Boston to Charlestown.
West Newton street, over N. Y., N. H. & H. Railroad, Provi-
dence Division.
West Rutland-square (foot-bridge), over N. Y., N. H. & H. Rail-
road, Providence Division.
Williams street, over Stony brook, West Roxbury.
Winthrop, from Breed's Island to Winthrop.

In charge of Park Department.

Agassiz, in Back Bay Fens.
Aborway, over Stony brook.
Audubon road, over Boston & Albany Railroad.
Bernier street (foot-bridge), in the Riverway.
Boylston street, in Back Bay Fens.
Bridle path, in the Riverway, over Muddy river.
*Castle Island (foot-bridge), from Marine park, South Boston, to
Castle Island.
Charlesgate, Back Bay Fens, over Boston & Albany Railroad.
Circuit drive, over Scarboro' pond, in Franklin park.
Commonwealth avenue, in Back Bay Fens.
Ellicott arch, in Franklin Park.
Fen, Back Bay Fens.
Forest Hills entrance, in Franklin park.
Leverett pond (foot-bridge), in Leverett park.
Neptune road, over Boston, Revere Beach & Lynn Railroad.
Scarboro' pond (foot-bridge), in Franklin park.
Stony brook, Back Bay Fens.

In charge of Public Grounds Department.

Public Garden (foot-bridge).

II. — BRIDGES OF WHICH BOSTON SUPPORTS THE PART WITHIN ITS LIMITS.

In charge of Bridge Division.

- *Cambridge street, from Brighton to Cambridge.
- Central avenue, from Dorchester to Milton.
- *Chelsea (North), from Charlestown to Chelsea.
- *Essex street, from Brighton to Cambridge.
- *Granite, from Dorchester to Milton.
- Mattapan, from Dorchester to Milton.
- Milton, from Dorchester to Milton.
- *Neponset, from Dorchester to Quincy.
- *North Beacon street, from Brighton to Watertown.
- *North Harvard street, from Brighton to Cambridge.
- Spring street, from West Roxbury to Dedham.
- *Western avenue, from Brighton to Cambridge.
- *Western avenue, from Brighton to Watertown.

In charge of Park Department.

- Bellevue street, in the Riverway, over Muddy river.
- Bernier street (foot-bridge), in the Riverway, over Muddy river.
- Brookline avenue, in the Riverway, over Muddy river.
- †Longwood avenue, from Roxbury to Brookline.
- Tremont street, in the Riverway, over Muddy river.

III. — BRIDGES OF WHICH BOSTON PAYS A PART OF THE COST OF MAINTENANCE.

In charge of Bridge Division.

- Albany street, over Boston & Albany Railroad.
- Chelsea bridge, over Boston & Maine Railroad.
- Dorchester street, over N. Y., N. H. & H. Railroad, Plymouth Division.
- Everett street, over Boston & Albany Railroad, Brighton.
- West Fourth street, over N. Y., N. H. & H. Railroad, Plymouth Division.

In charge of Commissioners of Cambridge Bridges.

- *Canal, from Boston to Cambridge.
- *Harvard, from Boston to Cambridge.
- *Prison Point, from Charlestown to Cambridge.
- *West Boston, from Boston to Cambridge.

IV. — BRIDGES SUPPORTED BY RAILROAD CORPORATIONS.

1st. — Boston & Albany Railroad.

- Harrison avenue.
- Market street, Brighton.
- Tremont street.
- Washington street.

† To be rebuilt and maintained by Park Departments of Boston and Brookline, by Act of Legislature.

2d. — Boston & Maine Railroad, Eastern Division.

Main street.

Mystic avenue.

3d. — Boston & Maine Railroad, Western Division.

Main street.

Mystic avenue.

4th. — Boston, Revere Beach & Lynn Railroad.

Everett street.

5th. — New England Railroad.

Dorchester avenue.

Harvard street, Dorchester.

Morton “ “

Norfolk “ “

Norfolk “ “

Silver street.

Washington street, Dorchester.

West Broadway.

West Fifth street.

West Fourth street.

West Second street.

West Sixth street.

West Third street.

6th. — New York, New Haven & Hartford Railroad, Plymouth Division.

Adams street.

Ashmont street and Dorchester avenue.

Cedar Grove Cemetery.

Freeport street.

Savin Hill avenue.

7th. — New York, New Haven & Hartford Railroad, Providence Division.

Beech street, West Roxbury.

Bellevue street, West Roxbury.

Canterbury street, West Roxbury.

Centre and Mt. Vernon streets, West Roxbury.

Dudley avenue, West Roxbury.

Park street, West Roxbury.

RECAPITULATION OF BRIDGES.

I. Number wholly supported by Boston :		
In charge of Bridge Division	54	
In charge of Park Department	17	
In charge of Public Grounds Department .	1	
	—	72
II. Number of which Boston supports the part within its limits :		
In charge of Bridge Division	13	
In charge of Park Department	5	
	—	18
III. Number of which Boston pays a part of the cost of maintenance :		
In charge of Bridge Division	5	
In charge of Commissioners of Boston and Cambridge Bridges	4	
	—	9
IV. Number supported by railroad corporations :		
1. Boston & Albany	4	
2. Boston & Maine, Eastern Division .	2	
3. Boston & Maine, Western Division .	2	
4. Boston, Revere Beach & Lynn . . .	1	
5. New England	13	
6. New York, New Haven & Hartford, Plymouth Division	5	
7. New York, New Haven & Hartford, Providence Division	6	
	—	33
Total number		<u>132</u>

List of Small Bridges or Culverts having Wooden Tops, which are repaired by Bridge Division.—Walls Repaired and Openings cleaned by Sewer Division.

LOCATION.	Span. Feet.	Height of Opening. Feet.	Length. Feet.	Side-walls.	Covering.
Ashland street and Canterbury, near Calvary Cemetery, West Roxbury.	7.6	5.5	75	Stone.....	Wood.
Beech street, near Anawan avenue, at Central station, West Roxbury.	4.0	4.0	50	Stone.....	Wood.
Cass street, near Spring-street station, West Roxbury.....	7.0	3.0	21	Stone.....	Wood.
Cohasset street, Roslindale.....	14.0	7.5	60	Stone.....	Wood.
Gardner street, near Cow Island, West Roxbury.....	5.0	5.5	33	Wood.....	Wood.
Jamaica street, Jamaica Plain.....	10.0	4.0	39	Stone.....	Wood.
Park street, west of Dorchester avenue, Dorchester.....	5.0	3.7	50	Stone.....	Wood.
Park street, west of N. Y., N. H. & H. Railroad, Dorchester.....	8.5	5.0	50	Stone.....	Wood.
Powell street, near Spring-street station, West Roxbury.....	12.0	3.0	65	Stone.....	Wood.
Spring street, near Spring-street station, West Roxbury.....	2.7	2.7	63	Stone.....	Wood.
Summer street, near Spring-street station, West Roxbury.....	4.0	4.5	40	Stone.....	Wood.
Williams street, at Stony brook, West Roxbury.....	5.0	5.0	50	Wood.....	Wood.
Woodman street, Jamaica Plain.....	6.3	4.0	65	Stone.....	Wood.

PUBLIC LANDING-PLACES.

The following public landing-places have been built by the city, and are maintained and controlled by the Street Department :

Charles-river Bridge.—Size, 40×60 . Built in 1890. Moored from city's property.

Essex-street Bridge.—Size, 9×23 . Built in 1890. Moored from city's property.

East Boston, Public Landing.—Size, 18×30 . Built in 1893. Moored at dock of East Boston Dry Dock Company. Dock and flats leased at \$250 per year.

Commercial Wharf.—Size, 30×50 . Built by M. F. Sullivan; contract dated January 1, 1892. Moored at dock of Commercial Wharf Corporation. Dock and flats leased November 30, 1891, at \$1,000 per year.

Federal-street Bridge.—Size, 20×30 . Built by M. F. Sullivan, October 26, 1892. Moored from city's property.

CABLE-HOUSES AND BOXES.

The following is a list of cable-houses and boxes on bridges in charge of this division :

New England Telephone and Telegraph Company :

Charles-river bridge, 2 houses, 1 unused box.

Chelsea [South] bridge, 1 house.

Congress-street bridge, 2 houses.

Dover-street bridge, 2 houses or boxes.

Chelsea [North] bridge, 1 box.

Chelsea-street bridge, 1 box.

Malden bridge, 4 boxes.

Meridian-street bridge, 2 boxes.

Neponset bridge, 2 boxes on poles.

Warren bridge, 2 boxes.

American Telephone and Telegraph Company :

Federal-street bridge, 1 house.

Merchants' Telegraph Company :

Congress-street bridge, 2 boxes.

Postal Telegraph Cable Company :

Congress-street bridge, 2 houses.

Malden bridge, 2 boxes.

Warren bridge, 2 boxes.

Boston Electric Light Company :

Congress-street bridge, 2 boxes.

West End Street Railway Company :

Cambridge-street bridge, 1 house.

Dover-street bridge, 1 house, 1 box.

Federal-street bridge, 2 houses.

Malden bridge, 2 houses.

Warren bridge, 2 houses.

Lynn & Boston Railroad Company :

Chelsea [North] bridge, 4 boxes.

Chelsea [South] bridge, 8 boxes.

Boston Police Department :

Chelsea [South] bridge, 1 box.

Malden bridge, 2 boxes.

Boston Fire Department :

Chelsea [North] bridge, 1 box.

Dover-street bridge, 1 house, 1 box.

Meridian-street bridge, 2 boxes.

Warren bridge, 2 boxes.

On Warren bridge there are also five small boxes ; the owners of the same are unknown.

**Statement of Traffic on Thursday, October 7, 1897, between
the hours of 6 A.M. and 7 P.M.**

North Bridges.

NAME OF BRIDGE.	Foot passengers from Boston.	Foot passengers to Boston.	Teams from Bos- ton.	Teams to Boston.	Street cars from Boston.	Street cars to Bos- ton.
Charles river.....	7,449	5,437	2,215	1,983		
Chelsea (North).....	795	1,036	754	863	334	350
Chelsea (South).....	1,448	1,181	789	749	335	347
Malden.....	379	570	701	842	368	328
Meridian street....	1,157	1,164	444	507	122	123
Warren	4,576	5,024	2,682	3,156	1,193	1,262

South Bridges.

Broadway	3,340	5,415	1,070	1,630	43	91
Congress street.....	6,030	6,780	3,580	3,750		
Dover street.....	5,235	5,448	964	1,019	251	257
Federal street.....	3,060	3,425	620	1,090	438	476
L street.....	945	1,040	240	310		
Mt. Washington avenue.....	1,598	1,734	953	760		

DRAW-TENDERS' REPORTS.¹

Giving the Number of Vessels passing through the Drawbridges controlled by the City of Boston, from February 1, 1897, to January 31, 1898.

NAME OF BRIDGE.	STEAMERS.			SAILING VESSELS.			TUGS.			ALL OTHERS.			TOTAL NUMBER OF VESSELS.			Total Number of Cargoes.	Total Number of Openings.
	By Day.	By Night.	Total.	By Day.	By Night.	Total.	By Day.	By Night.	Total.	By Day.	By Night.	Total.	By Day.	By Night.	Total.		
Broadway.....	7	1	8	2,172	823	2,995	2,990	517	3,507	974	235	1,209	6,143	1,576	7,719	2,062	5,066
Cambridge street.....	.....	.....	.....	117	8	125	669	41	710	377	19	396	1,163	68	1,231	229	763
Charles river.....	42	6	48	1,896	680	2,576	3,415	842	4,257	2,325	601	2,926	7,678	2,129	9,807	2,642	6,702
Chelsea (North).....	75	18	93	815	163	978	4,275	911	5,186	2,165	634	2,799	7,330	1,726	9,056	1,657	5,368
Chelsea (South).....	46	.....	46	1,268	77	1,345	3,155	218	3,373	953	40	993	5,422	335	5,757	1,525	4,272
Chelsea street.....	.....	.....	.....	19	.....	19	137	1	138	80	.....	80	236	1	237	29	136
Commercial Point.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	1
Congress street.....	94	19	113	3,297	1,021	4,318	8,278	1,467	9,745	2,938	663	3,541	11,007	3,110	17,717	3,321	9,515
Dover street.....	6	.....	6	1,990	823	2,813	2,428	581	3,009	738	237	975	5,162	1,641	6,803	2,652	5,038
Essex street.....	1	.....	1	165	9	174	744	44	788	463	19	422	1,313	72	1,385	210	844
Federal street.....	6	.....	6	2,302	897	3,199	3,269	756	4,025	939	287	1,226	6,516	1,940	8,456	2,265	6,206
Granite street.....	.....	.....	.....	55	3	58	245	13	258	62	1	63	362	17	379	60	231
L street.....	3	1	4	518	155	673	1,771	295	2,066	1,017	202	1,219	3,309	653	3,962	642	2,633
Malden.....	2	.....	2	395	55	450	1,442	210	1,652	858	201	1,059	2,697	466	3,163	651	1,973
Meridian street.....	40	17	57	563	47	610	3,479	666	4,145	1,875	589	2,464	5,957	1,319	7,276	1,518	4,358

Mt. Washington avenue.....	64	10	74	2,858	928	3,786	5,484	959	6,443	2,062	447	2,509	10,408	2,344	12,812	3,088	7,069
Neponset.....	.....	.....	.....	57	.....	57	245	9	254	66	.....	66	368	9	377	61	237
North Beacon street.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Harvard street.....	.....	.....	.....	77	3	80	621	51	672	890	98	988	1,588	152	1,740	494	772
Warren.....	33	8	41	1,060	816	2,476	2,364	617	2,981	1,331	435	1,766	5,388	1,876	7,264	2,074	5,162
Western ave. to Cambridge .....	.....	.....	.....	92	11	103	534	31	565	317	15	332	943	57	1,000	178	618
Western ave. to Watertown ..	.....	.....	.....	7	.....	7	108	.....	108	58	.....	58	173	.....	173	35	113
Totals.....	419	80	499	20,323	6,519	26,842	45,653	8,226	53,882	20,429	4,663	25,092	80,824	19,491	106,315	24,793	67,577

¹ West Boston, Prison Point, Canal (or Craigie's), and Harvard bridges, not included in these tables, being in the care of commissioners representing the two cities (Boston and Cambridge) connected by these bridges.

Table showing the Widths of Openings for Vessels in all Bridges provided with Draws in the City of Boston, Jan. 31, 1898.

NAME OF BRIDGE.	Location.	Number of Openings.	Width.
Boston & Maine R.R., Eastern Division	Boston to Charlestown	1	39 feet 8 inches
Boston & Maine R.R., Eastern Division	Over Miller's river.....	1	35 " 6 "
Boston & Maine R.R. (freight), Southern Division	Boston to East Cambridge	1	40 " 2 "
Boston & Maine R.R. (passenger), Southern Division	" "	1	39 " 7 "
Boston & Maine R.R., Western Division	Boston to Charlestown	1	39 " 7 "
Boston & Maine R.R., Western Division	Over Miller's river.....	1	35 " 10 "
Broadway.....	Over Fort Point channel ..	1	43 " 3 "
Cambridge street	Brighton to Cambridge....	1	36 " 4 "
Canal (or Craigie's).	Boston to East Cambridge.	1	36 " 0 "
Charles river	Boston to Charlestown	1	36 " 0 "
Chelsea (south channel).....	Charlestown to Chelsea....	1	38 " 9 "
Chelsea (north channel).....	" "	1	44 " 10 "
Chelsea st. (East Boston side)....	East Boston to Chelsea	2	36 " 0 "
Chelsea street (Chelsea side)	" "	..	36 " 0 "
Commercial Point (or Teneau)...	Dorchester	1	24 " 0 "
Congress street (Boston side)....	Over Fort Point channel ..	2	43 " 3 "
" (South Boston side)....	" "	..	43 " 9 "
Dover street	" "	..	37 " 0 "
Essex street	Brighton to Cambridge ...	1	35 " 9 "
Federal street	Over Fort Point channel....	1	41 " 10 "
Fitchburg R.R.	Boston to Charlestown	1	36 " 0 "
Fitchburg R.R. (for teaming freight)	" "	1	36 " 0 "
Grand Junction R.R.	Brighton to Cambridge....	1	35 " 9 "
" "	East Boston to Chelsea....	1	34 " 6 "
Granite	Dorchester to Milton	1	36 " 0 "
Harvard (Boston side).....	Boston to Cambridge	2	36 " 6 "
" (Cambridge side).....	" "	..	36 " 10 "
L street	Over Reserved channel, South Boston	1	40 " 0 "
Malden	Charlestown to Everett....	1	43 " 4 "

Table showing Width of Openings, etc. — *Concluded.*

NAME OF BRIDGE.	Location.	Number of Openings.	Width.
Meridian st. (East Boston side) ..	East Boston to Chelsea	2	59 feet 2 inches
“ (Chelsea side)	“ “	..	59 “ 0 “
Mt. Washington avenue (Boston side)	Over Fort Point channel ..	2	42 “ 3 “
Mt. Washington avenue (South Boston side)	“ “	..	42 “ 3 “
Neponset	Dorchester to Quincy	1	36 “ 0 “
New England R.R. (Boston side).	Over Fort Point channel ..	2	41 “ 5 “
New England R.R. (South Boston side)	“ “	..	40 “ 4 “
New England R.R.	Over South Bay	1	28 “ 4 “
North Beacon street	Brighton to Watertown	1	30 “ 3 “
North Harvard street	Brighton to Cambridge	1	36 “ 0 “
New York, New Haven & Hart- ford R.R.	Over Fort Point channel ..	1	36 “ 3 “
New York, New Haven & Hart- ford R.R.	Dorchester to Quincy	1	35 “ 10 “
Prison Point	Charlestown to Cambridge	1	36 “ 0 “
Warren	Boston to Charlestown	1	36 “ 0 “
West Boston (Boston side)	Boston to Cambridge	2	35 “ 6 “
“ (Cambridge side) ...	“ “	..	36 “ 6 “
Western avenue	Brighton to Cambridge	1	36 “ 0 “
“	Brighton to Watertown	1	35 “ 10 “

Table showing Width of Bridges, kind of Roadways, Sidewalks, etc., on Tide-water Bridges, Jan. 31, 1898.

NAME OF BRIDGE.	Width of Bridge.	ROADWAY.		SIDEWALKS.		
		Width.	Kind of Roadway.	No.	Width.	Kind of Walks.
	<i>Ft. In.</i>	<i>Ft. In.</i>			<i>Ft. In.</i>	
Broadway	60 0	40 0	Plank	2	10 0	Coal-tar concrete.
Cambridge street	40 0	32 2	"	1	6 0	Plank.
Canal	64 0	48 0	Paved	2	8 0	Brick.
Charles river.....	50 0	34 0	"	2	8 0	"
Chelsea, North.....	49 0	40 0	"	1	8 0	Coal-tar concrete and plank.
" South.....	50 3	41 2	"	1	8 0	Plank.
" street	30 0	23 2	Plank	1	6 0	"
Commercial point.....	about 34 0	about 27 0	"	0		
Congress street	60 0	44 0	Paved	2	8 0	Coal-tar concrete.
Dover st. (over water)	60 0	40 0	"	2	10 0	Asphalt.
Essex street.....	31 0	22 8	Plank	1	7 6	Plank.
Federal street.....	69 0	49 0	Paved	2	10 0	Asphalt.
Granite	30 2	24 4	Plank	1	5 0	Plank.
Harvard	69 4	51 0	"	2	9 2	Asphalt.
L street	60 0	44 0	Paved	2	8 0	"
Malden.....	40 0	32 0	"	1	7 0	Coal-tar concrete.
Meridian street	50 0	36 0	"	2	7 0	" "
Mt. Washington ave. .	61 0	39 6	"	2	10 9	" "
Neponset	30 0	23 10	Plank	1	5 5	Plank.
North Beacon street ..	31 0	25 2	"	1	5 0	"
North Harvard street.	28 2	26 7	"	0		
Prison Point.....	50 0	36 0	{ Plank part }	2	7 0	Coal-tar concrete.
Warren	80 0	60 0	{ Paved part }	2	10 0	" "
Western ave. to Cambridge	33 2	26 3	Plank	1	6 0	Plank.
Western ave. to Water-town	33 0	24 2	"	1	8 0	"
Winthrop	24 2	19 10	"	1	3 7	"
West Boston	50 0	36 0	Paved	2	7 0	Brick.

DRAW-TENDERS' REPORTS.¹

Giving the Number of Vessels passing through the Drawbridges controlled by the City of Boston during the Years 1893, 1894, 1895, 1896 and 1897.

NAME OF BRIDGE.	STEAMERS.					SAILING VESSELS.					TUGS.					ALL OTHERS.					TOTAL NUMBER OF VESSELS.					TOTALS.
	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	
	8	6	16	22	8	2,959	2,800	3,115	3,082	2,995	1,840	1,935	2,279	2,338	3,507	664	795	816	890	1,209	5,471	5,536	6,226	6,352	7,719	
Broadway .....	...	...	...	...	...	149	109	150	133	125	608	523	599	572	710	186	205	181	217	306	943	837	930	922	1,231	31,304
Cambridge street ..	...	...	...	...	...	2,690	2,503	2,815	2,837	2,576	3,175	2,942	3,641	4,121	4,257	2,352	2,271	2,492	2,534	2,926	8,247	7,750	8,993	9,551	9,807	4,863
Charles river	30	34	45	39	48	898	1,141	995	1,163	978	3,422	3,841	4,862	4,373	5,186	1,637	1,631	2,383	2,229	2,739	6,074	6,679	8,155	7,930	9,056	44,348
Chelsea (North)	57	66	115	159	93	808	1,130	847	1,260	1,345	2,540	1,810	2,275	2,748	3,373	1,328	1,083	984	914	993	5,078	3,704	4,137	4,961	5,757	37,894
Chelsea (South)	80	51	31	39	46	1,130	850	847	1,260	1,345	2,540	1,810	2,275	2,748	3,373	1,328	1,083	984	914	993	5,078	3,704	4,137	4,961	5,757	23,727
Chelsea street .....	...	6	...	6	...	14	57	24	30	19	35	150	105	163	138	20	116	41	105	80	69	338	170	304	237	1,118
Commercial Point ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Congress street	361	277	383	292	113	4,671	4,080	4,174	4,204	4,318	7,411	7,626	7,886	8,347	9,745	2,694	2,850	2,888	3,059	3,541	15,137	14,835	15,281	15,962	17,717	78,990
Dover street	6	6	16	20	6	2,415	2,355	2,894	2,871	2,813	1,574	1,557	1,999	2,146	3,009	618	711	712	741	975	4,613	4,629	5,621	5,778	6,803	27,444
Essex street	23	4	...	4	1	180	134	158	238	174	717	639	721	685	788	218	244	242	295	422	1,138	1,021	1,121	1,222	1,385	5,887
Federal street	9	6	16	17	6	3,199	3,017	3,366	3,303	3,199	2,231	2,261	2,636	2,941	4,025	703	816	848	1,083	1,226	6,142	6,100	6,896	7,434	8,456	35,028
Granite street .....	...	...	...	...	...	109	82	126	64	58	237	220	306	240	238	24	37	41	55	63	370	339	473	359	379	1,920
L street .....	...	4	2	18	4	...	678	541	730	673	...	2,754	3,132	2,556	2,066	...	1,535	2,128	1,128	1,219	...	4,971	5,803	4,432	3,902	19,168

¹ West Boston, Prison Point, Canal (or Craigie's) and Harvard Bridges not included in these tables, being in the care of commissioners representing the two cities (Boston and Cambridge) connected by these bridges.

Draw-Tenders' Reports. — *Concluded.*

NAME OF BRIDGE.	STEAMERS.				SAILING VESSELS.				TUGS.				ALL OTHERS.				TOTAL NUMBER OF VESSELS.				TOTALS.
	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	1893.	1894.	1895.	1896.	1897.	
Malden	5	8	2	4	2	200	360	273	352	450	1,107	1,226	1,619	1,384	1,652	478	574	1,236	961	1,059	13,012
Meridian street.....	44	47	58	51	57	771	846	818	653	610	3,736	4,030	4,046	4,391	4,145	1,746	2,088	2,031	1,354	2,464	34,586
Mt. Washington avenue.....	79	87	69	88	74	3,822	3,432	3,699	3,700	3,786	4,741	4,782	5,119	5,426	6,443	2,089	2,246	2,229	2,304	2,509	56,724
Neponset .....	.....	.....	.....	.....	.....	131	105	148	66	57	244	224	306	250	254	31	40	47	60	66	2,029
No. Beacon street..	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
No. Harvard street	.....	.....	.....	.....	.....	54	64	96	92	80	131	168	224	279	672	36	36	35	72	988	3,027
Warren	7	63	47	42	41	2,655	2,081	2,312	2,320	2,476	1,983	2,124	2,588	3,007	2,981	1,520	1,639	2,007	2,143	1,766	33,862
Western avenue to Cambridge .....	.....	2	.....	.....	.....	132	95	115	114	103	481	426	485	451	565	137	153	136	158	332	3,885
Western avenue to Watertown .....	.....	.....	.....	.....	.....	•	6	.....	36	7	18	28	7	102	108	14	20	7	45	58	463
Totals.....	710	667	800	801	499	26,245	24,797	26,666	27,424	26,842	36,232	39,275	44,665	46,540	53,882	16,555	19,151	21,434	20,947	25,092	459,224

APPENDIX B.

REPORT OF THE DEPUTY SUPERINTENDENT OF
THE FERRY DIVISION.

NORTH FERRY, EAST BOSTON, February 1, 1898.

MR. BENJ. W. WELLS,

Superintendent of Streets :

DEAR SIR: I respectfully submit the annual report of the expenditures, income and operation of the Ferry Division of the Street Department for the financial year ending January 31, 1898:

South Ferry, East Boston side, located at the termination of Lewis street, covering an area of 58,725 square feet of land and water. On these premises are one head-house, one coal-shed, one work-shop for carpenters, machinists and blacksmith, one gate-room and oil-room, all in a very poor condition. Three piers which form the two ferry-slips, two drops and tanks, and one dock where boats are laid when not in use or while undergoing repairs.

South Ferry, Boston side, located at the termination of Eastern avenue, covering an area of 28,135 square feet of land and water, upon which is one head-house with canopies extending over driveways, one gate-room, three piers which form the two slips, and two drops and tanks.

The wharf property adjoining these premises was leased by the Ferry Department in 1881 for 999 years, at a rental of \$4,000 per year. The whole of it is sub-let to the Public Institutions Department for \$2,000 per year, making a net loss to this division of \$2,000 a year, which should be borne by Public Institutions Department.

North Ferry, Boston side, located at the termination of Battery street, covering an area of 45,000 square feet of land and water, upon which are one head-house with canopies, one gate-room and steam-room, three piers which form the two slips, and two drops and tanks.

North Ferry, East Boston side, located at termination of Border street, covering an area of 62,138 square feet of land and water, upon which are one head-house with canopy, boiler-room, oil-room, stable and coal-shed, three piers, which form the two slips, two drops and tanks.

There are eight drops. One new drop and tank have been built and put in place during the past year at South Ferry, East Boston side, and the City Engineer recommends that two more be built and placed in position. When this is done all the drops will be then practically new.

There are twelve piers, only two of which are in good condition, and extensive repairs should be made on the rest. Those at South Ferry, on both sides, are in very poor condition, especially on Boston side, where the south pier must be entirely rebuilt.

The head-houses are all in good condition, with the exception of the one at South Ferry, East Boston side. Plans have been drawn for a new head-house and coal shed, and for the rearrangement of the slips at this landing, and it is hoped that before long this terminal will be equal, if not superior, to any of the others.

I again repeat my recommendation of last year that Battery street be widened from Commercial street to the ferry gates.

There are seven ferry-boats in use in this division, six of them week days and three on Sunday. One is a spare boat.

During the past year two of the boats the "Hugh O'Brien" and "East Boston" have been hauled out on railway and calked and coppered at a cost of almost \$4,000. A new propeller boat is undergoing construction and will be in commission about May 1, 1898. It will take the place of the "Ben Franklin," which has outlived its usefulness. The other five boats are in very good condition. The end of the "Hugh O'Brien" has been built up the past year, making her good for some time to come.

A new modern boat should be built to take the place of the "Winthrop," which is now twenty-five years old.

During the past year every boat (with the exception of "Ben Franklin") has been thoroughly overhauled, both machinery and woodwork, and painted throughout. Electric lights have been installed on three of the boats as provided for by a special appropriation, making five of the seven boats equipped with electric lights.

Electric motors have been installed at all the landings, and it is now possible on this account to make schedule running time, regardless of weather conditions.

The south pier at North Ferry, East Boston side, has been completely overhauled and repaired at a cost of \$2,000. This was imperative, as the pier was in a dangerous condition.

The landing at the South Ferry, East Boston side, was raised about 14 inches, this will prevent any but an extraordinary high tide rising over the landing. Previously

any little increase in the tide necessitated the use of planks in order that passengers might reach the boats.

By reference to the financial and travel schedules you will see that the increase of receipts was \$4,369.60, increase of foot travel over 431,000 and of team travel 23,500.

Respectfully yours,

WILLIAM F. McCLELLAN,
Deputy Superintendent.

FINANCIAL STATEMENT.

REGULAR ANNUAL AND SPECIAL APPROPRIATIONS OF STREET DEPARTMENT, FERRY DIVISION FOR YEAR ENDING JANUARY 31, 1898.

Appropriation for year ending January 31, 1898 .	\$220,000 00
Amount of expenditures	\$219,983 24
Amount transferred to Paving Division	16 76
	<u>\$220,000 00</u>

OBJECTS OF EXPENDITURE.

Salaries and wages for maintenance	\$130,691 30
Salaries and wages for repairs	17,851 52
Current expenses	19,684 10
Fuel	32,027 41
Supplies for maintenance	4,875 19
Supplies for repairs	3,100 54
Repairs on boats	9,791 90
Repairs on buildings, piers and drops	1,297 96
Damages to persons and property	136 00
Tools and fixtures	407 32
Incidental expenses	120 00
	<u>\$219,983 24</u>

Unexpended balance transferred to Street Department, Paving Division	16 76
	<u>\$220,000 00</u>

SPECIAL APPROPRIATIONS.

Appropriation authorized for new ferry-landings, head-house and new boats	\$500,000 00
Amount issued during year ending	
January 31, 1897	\$30,000 00
Amount issued during year ending	
January 31, 1898	102,800 00
Total amount issued	<u>\$132,800 00</u>

OBJECTS OF EXPENDITURES.

Amount expended as per annual report of 1896	\$21,961 61
Wm. McKie, on contract for building three drops	\$6,474 57
Installing three electric motors on landings	4,070 00
R. F. Keough, plans and specifications for double screw ferry-boat	1,600 00
John M. Brooks, new tank for drop	1,737 50
Wm. McKie, first payment on contract for double screw ferry-boat	15,000 00
John M. Brooks, new ferry-drop	5,383 50
Sundry bills for construction	9,914 76
	<hr/>
	44,180 33
	<hr/>
Total expended	\$66,141 94
Balance	433,858 06
	<hr/>
	<u>\$500,000 00</u>
Expended of amount issued	\$66,141 94
Balance of amount issued	66,658 06
	<hr/>
	<u>\$132,800 00</u>
Appropriation for installing electric lights on ferry- boats	<u>\$8,000 00</u>

OBJECTS OF EXPENDITURE.

Public Buildings Department, Electrical Construction Division :	
Electric installation on ferry-boat "Winthrop"	\$2,556 42
Electric installation on ferry-boat "Revere"	2,241 80
New appliances for construction	990 28
Sundry expenses	74 38
	<hr/>
	\$5,862 88
Unexpended of appropriation	2,137 12
	<hr/>
	<u>\$8,000 00</u>

TOTAL APPROPRIATIONS.

Annual maintenance	\$220,000 00
New ferry-landing, balance Feb- ruary 1, 1897	478,038 39
Installation electric lights on boats	8,000 00
	<hr/>
	<u>\$706,038 39</u>

TOTAL EXPENDITURES.

Annual maintenance . . .	\$219,983 24	
New ferry-landing . . .	44,180 33	
Electric lights on boats . . .	5,862 88	
	<hr/>	
	\$270,026 45	
Transfer to Paving Division . . .	16 76	
	<hr/>	270,043 21
Unexpended		\$435,995 18
New ferry-landing	\$433,858 06	
Electric lights on boats	2,137 12	
	<hr/>	\$435,995 18
		<hr/>

INCOME.

Cash Receipts from February 1, 1897, to February 1, 1898.

At office of City Collector :

For rent	\$2,540 00
reimbursed damages	600 00
free ferries, July 4, 1897	25 00
sales of foot-passes	377 00
sales of team tickets	36 00

At Ferry Division office :

For old material sold	154 65
sales of foot-passes	943 80
sales of team tickets	648 50
sales of rejected coin	1 68
boat privileges to bootblacks	44 00

From Tollmen :

For 12,042,918 foot passengers at 1 cent	120,429 18
sales of team tickets	27,679 50

From Gatemen :

For 285,104 foot-passengers at 1 cent	2,851 04
ferriage of teams	15,118 86

Total receipts for year	<hr/>	\$171,449 21
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STATEMENT SHOWING RECEIPTS AT EACH FERRY.

North Ferry.

From Tollman.	Foot-Passengers, at 1 cent.	Team Tickets.	Total.
No. 2.....	\$12,552 80	\$1,915 50	\$14,468 30
" 3.....	12,185 34	1,914 00	14,099 34
" 5.....	12,437 82	2,013 00	14,450 82
" 6.....	11,989 27	1,978 50	13,967 77
" 9.....	12,315 52	1,837 50	14,153 02
" 10.....	12,319 88	1,989 00	14,308 88
" 13.....	12,421 79	1,940 00	14,361 79
	\$86,222 42	\$13,587 50	\$99,809 92

From Tollmen \$99,809 92

From Gatemen :

For 175,420 foot-passengers at 1c., \$1,754 20

ferriage of teams 6,139 63

7,893 83

Total at North Ferry \$107,703 75

South Ferry.

From Tollman.	Foot-Passengers, at 1 cent.	Team Tickets.	Total.
No. 1.....	\$8,061 54	\$3,550 00	\$11,611 54
" 4.....	7,737 40	3,347 50	11,084 90
" 7.....	8,340 57	3,359 00	11,699 57
" 8.....	7,806 76	3,475 00	11,281 76
" 11.....	1,027 22	124 50	1,151 72
" 12.....	1,233 27	236 00	1,469 27
	\$34,206 76	\$14,092 00	\$48,298 76

From Tollmen \$48,298 76

From Gatemen :

For 109,684 foot-passengers at 1c., \$1,096 84

ferriage of teams 8,979 23

10,076 07

Total at South Ferry \$58,374 83

North and South ferries, as above . . .	\$166,078 58
Tickets at office of City Collector . . .	413 00
Tickets at office of Ferry Division . . .	1,592 30
Rent	2,540 00
Reimbursed damages	600 00
Free ferries, July 4, 1897	25 00
Old material, rejected coin and bootblacks . . .	200 33
Total receipts for year 1897	<u>\$171,449 21</u>

CASH STATEMENT.

*From February 1, 1897, to February 1, 1898.**Dr.*

To cash received	<u>\$171,449 21</u>
----------------------------	---------------------

Cr.

By amount paid City Collector . . .	\$171,454 23
“ rejected coin	6 37
	<u>\$171,449 21</u>

STATEMENT OF RECEIPTS.

From April 1, 1870 (date of purchase by the City of Boston, of the East Boston Ferries), to February 1, 1898.

Cash received for tolls from April 1, 1870, to February 1, 1894 . . .	\$3,928,874 64
Cash received for tolls from February 1, 1894, to February 1, 1895	152,950 04
Cash received for tolls from February 1, 1895, to February 1, 1896	166,307 33
Cash received for tolls from February 1, 1896, to February 1, 1897	163,769 67
Cash received for tolls from February 1, 1897, to February 1, 1898	168,083 88
	<u>\$4,579,985 56</u>
Cash received for rent	\$44,911 30
Cash received for old boats	15,246 71
Cash received from all other sources	9,887 31
	<u>70,045 32</u>
Total receipts in 27 years 10 months	<u>\$4,650,030 88</u>

CASH STATEMENT.

*From April 1, 1870 to February 1, 1898.**Dr.*

To receipts from all sources in 27 years 10 months	\$4,650,030 88
--	----------------

Cr.

By amount paid in to City Collector	\$4,649,352 20
By cash with Tollmen and Gate-men as capital	608 00
By counterfeit and rejected money in 27 years 10 months	70 68
	<hr/>
	\$4,650,030 88

EXPENDITURES.

From March 4, 1857, to April 1, 1870.

Amount charged to the East Boston ferries by Auditor previous to purchase :

For avenues	\$250,000 00
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For repairs	65,815 68
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	<hr/>	\$315,815 68
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For ferry property, purchased	
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April 1, 1870	276,375 00
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	<hr/>	\$592,190 68
--	-------	--------------

Amount of expenditure from April 1, 1870, to February 1, 1894	\$5,463,922 36
---	----------------

Amount of expenditure from February 1, 1894, to February 1, 1895	224,441 04
--	------------

Amount of expenditure from February 1, 1895, to February 1, 1896	221,813 94
--	------------

Amount of expenditure from February 1, 1896, to February 1, 1897	241,057 70
--	------------

Amount of expenditure from February 1, 1897, to February 1, 1898	270,043 21
--	------------

	<hr/>	6,421,278 25
--	-------	--------------

	<hr/>	\$7,013,468 93
--	-------	----------------

DEDUCT.

Amount paid to City Treasury	4,649,352 20
--	--------------

Net cost of ferries to city to date, not including interest on loans	\$2,364,116 73
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STATEMENT SHOWING THE ACTUAL STANDING OF FERRY DIVISION, STREET DEPARTMENT, WITH THE CITY OF BOSTON
FEBRUARY 1, 1898.*Dr.*

Amount paid previous to April 1, 1870 . . .	\$592,190 68
Amount paid from April 1, 1870, to February 1, 1898, as follows:	
Seven new ferry steamers	371,956 04
New buildings, piers and drops	406,218 35
Fuel	948,260 01
Repairs of all kinds	675,629 14
Salaries and wages	3,087,689 94
Tools and fixtures	13,284 76
Land from Lincoln's Wharf in 1887	5,562 52
Land from Battery Wharf in 1893	10,000 00
All other expenses	902,660 68
Transfers to other Divisions of Street Department	16 81

\$7,013,468 93
Cr.

By amount paid the city for income	\$4,649,352 20
amount charged to ferry property for avenues that were laid out as streets, August, 1880, and which should be credited to this division, paving avenues	250,000 00 11,530 84
amount paid to Department of Public Buildings previous to January 1, 1881, and which should be credited to this division	60,277 56
estimated value of seven ferry steamers	\$176,885 00
less 6 per cent. for depreciation	10,613 10
	<hr/> 166,271 90
estimated value of real estate and franchise as per last report	\$649,500 00
added for improvement during the year	26,400 00
	<hr/> 675,900 00
amount paid for awning, North Ferry, East Boston	742 94
new ferry-landing, expenditure not yet charged off	160 10
electric light for boats, expenditure not yet charged off	5,862 88
	<hr/>
<i>Carried forward,</i>	\$5,820,098 42

<i>Brought forward,</i>	\$5,820,098 42
By land from Lincoln's Wharf	5,562 52
land from Battery Wharf	10,000 00
estimated value of tools and fixtures	6,000 00
estimated value of fuel on hand	567 76
estimated value of supplies on hand	3,494 69
amount expended on Eastern-avenue Wharf,	1,499 46
cash with employés as capital	608 00
amount charged to new ferry steamer to date,	17,681 84
amount of transfers to other divisions	16 81
profit and loss in 27 years 10 months	1,147,939 43
	<u>\$7,013,468 93</u>

STATEMENT SHOWING THE DIFFERENCE OF TRAVEL ON THE
FERRIES FROM FEBRUARY 1, 1897, TO FEBRUARY 1, 1898.

	<i>North.</i>	<i>South.</i>
Foot-passengers, at 1 cent each	8,622 242	3,420 676
Foot-passengers by ticket	87,342	50,908
	<u>8,709,584</u>	<u>3,471,584</u>
Foot-passengers, free	59,799	6,430
One-horse teams and pleasure carriages,	224,702	202,259
Two-horse teams	83,232	125,265
Three-horse teams	2,261	4,237
Four-horse teams	5,549	8,028
Two-horse pleasure carriages and hacks,	5,768	2,051
Two-cent tolls (at gate) handcarts, etc.,	4,456	4,363
Four-cent tolls	126,388	185,165
Six-cent tolls	3,200	3,640
Seven-cent tolls	4	—
Eight-cent tolls	8,767	13,170
Ten-cent tolls	362	856
Thirteen-cent tolls	455	929
Fifteen-cent tolls	34	28
Twenty-cent tolls	—	2
Thirty-cent tolls	3	8
Free teams	<u>4,251</u>	<u>2,297</u>

**Total Travel on both Ferries from February 1, 1897, to
February 1, 1898.**

	From Feb. 1, 1893, to Feb. 1, 1894.	From Feb. 1, 1894, to Feb. 1, 1895.	From Feb. 1, 1895, to Feb. 1, 1896.	From Feb. 1, 1896, to Feb. 1, 1897.	From Feb. 1, 1897, to Feb. 1, 1898.
One-horse teams.....	665,967	690,427	676,294	733,478	738,514
Two-horse teams	202,323	204,667	248,291	219,306	240,434
Three-horse teams.....	7,573	6,242	9,095	9,290	7,716
Four-horse teams.....	16,641	14,503	16,939	14,902	14,961
Two-horse carriages and hacks	16,340	16,236	10,349	16,299	14,659
Two-cent tolls for hand- carts, etc.....	6,259	5,726	7,059	8,321	8,819
Drag-wheels, etc.....	88	57	101	76	75
Foot-passengers.....	10,988,027	11,281,321	11,929,790	12,034,300	12,466,272

TICKET STATEMENT.

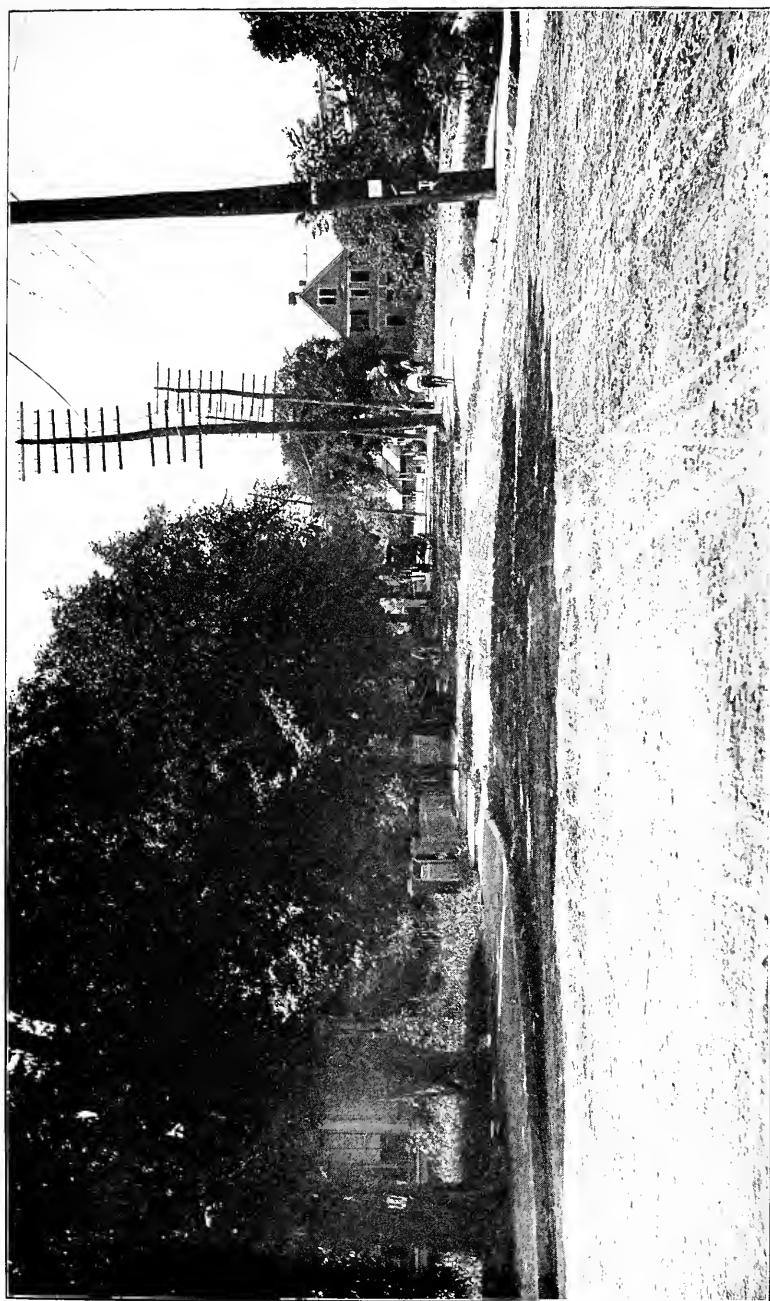
Foot-passes outstanding February 1, 1897 . . .	193,700
Foot-passes sold during the year . . .	132,080
Foot-passes delivered on requisitions . . .	7,200
	<hr/>
	332,980
Received and destroyed during this year . . .	138,250
	<hr/>
Outstanding February 1, 1898 . . .	<u>194,730</u>

Team Tickets.

	1-Horse.	2-Horse.	3-Horse.	4-Horse.
Outstanding February 1, 1897....	56,449	31,553	2,010	4,936
Sold during the year.....	369,648	208,720	6,696	13,540
Delivered on requisitions.....	1,792	1,232		
	<hr/>	<hr/>	<hr/>	<hr/>
	427,889	241,505	8,706	18,476
Received and destroyed during the year	369,605	208,497	6,498	13,577
	<hr/>	<hr/>	<hr/>	<hr/>
Outstanding February 1, 1898....	58,284	33,008	2,208	4,899

Pleasure Carriage Tickets.

	1-Horse.	2-Horse.
Outstanding February 1, 1897	16,219	2,778
Sold during the year	58,180	8,020
Delivered on requisitions	900	
	75,299	10,798
Received and destroyed during the year	57,356	7,819
Outstanding February 1, 1898	17,943	2,979



BOSTON STREET AT EDWARD EVERETT SQUARE TO BE WIDENED AND CONSTRUCTED AS A PART OF COLUMBIA ROAD.

APPENDIX C.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE
PAVING DIVISION.

ROOM 44, CITY HALL, BOSTON, February 1, 1898.

MR. BENJ. W. WELLS, *Superintendent of Streets*:

DEAR SIR: I respectfully submit the annual report of the expenditures and income of the Paving Division of the Street Department for the financial year ending January 31, 1898, showing the nature of the work, the number and variety of permits issued, and the details of expenditures involved in paving, macadamizing, regulating and constructing various streets.

Respectfully yours,

JOHN L. KELLY,
Deputy Superintendent.

The following table shows the amount expended for maintenance of the Paving Division and from special appropriations derived from loans for the last seven (7) years, not including the cost of street-watering, to be found on another page:

	Maintenance.	Specials.	Totals.
1891 (13 months).....	\$872,936 40	\$1,014,324 26	\$1,887,260 66
1892.....	915,460 99	962,889 09	1,878,350 08
1893.....	745,681 52	707,801 49	1,453,483 01
1894.....	715,608 62	839,713 78	1,555,322 40
1895.....	683,899 42	823,011 70	1,506,911 12
1896.....	628,675 46	1,755,176 71	2,383,852 17
1897.....	690,187 34	1,413,142 79	2,103,330 13

FINANCIAL STATEMENT.

REGULAR APPROPRIATION.

Appropriation for 1897-98	\$660,000 00
Amount collected for repairs made by Paving Division for different companies, etc.	1,296 80
Amount transferred from surplus income	\$28,660 46
Amount transferred from Central office	206 70
Amount transferred from Ferry Division	16 76
Amount transferred from Street-cleaning Division	6 62
	<hr/> 28,890 54
	<hr/> \$690,187 34
Amount of expenditures from February 1, 1897, to January 31, 1898	\$690,187 34

Objects of Expenditures from the Regular Appropriation, Classified by Districts, from Feb. 1, 1897, to Jan. 31, 1898.

DISTRICTS.	Repairs.	Snow.	Edgestone and Sidewalk Repairs.	Repairing Fences.	Repairing Plankwalks.	A. Miscellaneous.	B. In Excess of Special Appropriation.	C. New Work.	Totals.
1. South Boston.....	\$5,421 44	\$8,260 48	\$6,191 91	\$1,077 82	\$863 12	.....	1	.....	1\$19,855 25
2. East Boston.....	16,505 88	5,703 97	3,988 39	402 22	237 22	.....	\$5,633 87	.....	32,471 55
3. Charlestown.....	10,357 52	8,438 21	4,357 98	93 09	.....	.....	2	.....	222,912 54
4. Brighton.....	15,985 02	4,748 56	477 33	252 49	728 32	.....	6,657 15	.....	28,848 87
5. West Roxbury.....	35,644 96	5,762 09	3,030 67	860 78	1,821 53	.....	2,187 09	.....	49,307 12
6. Dorchester.....	51,909 56	7,071 98	6,730 97	681 23	4,015 40	.....	12,487 56	\$6,166 44	89,063 14
7. Roxbury.....	46,986 82	12,959 84	8,263 40	435 92	1,716 48	.....	9,510 75	.....	79,873 21
8. South End.....	19,513 99	23,894 44	5,757 71	74 28	1,916 35	.....	3,029 35	.....	54,186 12
9. Back Bay.....	27,100 52	13,359 01	3,775 74	754 72	948 43	.....	14,720 30	2,409 67	63,068 39
10. North End.....	13,458 87	26,025 62	5,561 62	194 94	109 87	.....	1,312 95	3,817 34	50,481 21
						\$200,119 94		.....	200,119 94
							\$55,539 02		
							1, 2 2,233 78		
Totals.....	\$242,884 58	\$116,224 20	\$48,135 72	\$4,827 49	\$12,356 72	\$200,119 94	\$53,245 24	\$12,333 45	\$690,187 34

¹ Less overcredit in South Boston district, \$1,959.52.

² Less overcredit in Charlestown district, \$324.26.

(A.) See Schedule A for items. (B.) This schedule shows amount of money spent in excess of the special appropriation, and taken from the maintenance appropriation; for items, see Schedule B and special appropriations. (C.) This schedule shows streets where the repairs have exceeded \$2,000; for items, see Schedule C.

FINANCIAL STATEMENT.

SPECIAL APPROPRIATIONS, PAVING AND STREET IMPROVEMENTS.

Amounts of balances, 1896-97, less transfers	\$314,311 82
Amount of appropriations, 1896-97, revenues and transfers	*920,822 07
	<hr/>
	\$1,235,133 89
Amount of expenditures	1,070,919 61
	<hr/>
Balances unexpended	<u>\$164,214 28</u>

TOTAL EXPENDITURES.

Maintenance appropriation	\$690,187 34
Special appropriations	1,070,919 61
Laying-out and Construction of Highways	261,124 44
Blue Hill and other Avenues	81,098 74
	<hr/>
	<u>\$2,103,330 13</u>

INCOME.

Statement showing the amount of bills deposited with the City Collector, from February 1, 1897, on account of the Paving Division :

Edgestone and sidewalk assessments	\$3,236 51
Permits	13,618 50
Miscellaneous	15 35
	<hr/>
	<u>\$16,870 36</u>

The amount paid into the city treasury during the year on account of the Paving Division is as follows :

Sidewalk construction assessments (law of 1892), Edgestone and sidewalk assessments (law of 1893)	\$11,526 59
Permits	3,540 64
Miscellaneous	13,618 50
	<hr/>
	<u>\$28,701 08</u>

* Six thousand to be provided for on appropriation for Gold-street bridge.

SCHEDULE A.

Salaries of Paving Division office, February 1, 1897, to January 31, 1898	\$16,706 24
Salaries of Permit office, February 1, 1897, to January 31, 1898	8,147 88
Salaries of inspectors, February 1, 1897, to January 31, 1898	17,992 62
Salaries of engineers, February 1, 1897, to January 31, 1898	4,698 66
Advertising in and subscribing for daily papers	1,420 85
Printing and stationery	11,519 56
Holidays	18,838 11
Expenses of yards and stables, including repairs, etc., to carts and harnesses and stables	\$126,683 54
Less amount earned by Division teams	80,464 00
	<hr/>
	46,219 54
Veterinary services	1,674 30
Tools, cost of keeping same in repair, etc.	19,779 63
Telephones	1,148 32
Street signs	4,506 84
Sundries	1,588 67
Edgestones and sidewalks, new	9,716 51
Artificial stone sidewalks	4,803 92
Building new fences	190 52
Building new plankwalks	110 13
Street cleaning	61,984 40
Damages	456 82
Watering streets	1,184 18
Crossing repairs	10,714 80
Crossings (new)	985 62
Man-hole and catch-basin repairs	217 78
Work done for Sewer Division	573 25
Work done for Water Department	25 43
Asphalt blocks sold to Edison Electric Illuminating Company	30 60
Stone sold to Massachusetts Broken Stone Company	874 34
Material sold to West End Street Railway Company	184 80
	<hr/>
	\$246,294 32
Less credit for stone taken from crushers	\$39,496 18
Less amount earned by steam rollers	6,630 74
Less decrease in stock	47 46
	<hr/>
	46,174 38
	<hr/>
	\$200,119 94
	<hr/>

SCHEDULE B.

The following schedule shows the expenditure from the maintenance appropriation of this division in excess of special appropriations :

Adams street, Ward 24	\$872 36
Albany street	38 65
Appleton street	1,329 00
Carleton street	65 75
Centre street, Dorchester	489 57
Centre street, Hogg's bridge to Day street	1,247 30
Centre street, Ward 23	230 68
Charles street	409 39
Commonwealth avenue	4,201 98
Dudley street, Brook avenue to Upham's corner	402 14
Franklin street	540 18
Lamartine street	500 67
McLellan street	425 97
Rand street	149 23
State street	11 40
Unity street	12 40
Washington street, Dover to Union Park street	343 67
Western avenue	1,914 99
South Union Station	151 70

Street Improvements, Ward 1 :

Bremen street.	\$171 47
Glendon street	70 00
Homer street	68 20
Horace street	72 70
Lexington street	2,174 26
Prescott street	248 25
Princeton street	287 15
Saratoga street	125 50
	<hr/>
	3,217 53

Street Improvements, Ward 2 :

Bremen street	\$256 21
Havre street	408 87
Liverpool street	406 68
London street	374 82
Meridian street	121 80
Porter street	847 96
	<hr/>
	2,416 34

Street Improvements, Ward 6 :

Atlantic avenue	\$39 00
Bulfinch street	19 25
Congress street	196 37
Foster street	132 36
	<hr/>
<i>Carried forward,</i>	\$386 98
	<hr/>
	\$18,970 90

<i>Brought forward,</i>	\$386 98	\$18,970 90
Haverhill street	13 03	
Lafayette avenue	156 45	
Lime alley	15 60	
Mt. Vernon street	208 15	
North street	69 62	
North Margin street	36 85	
Somerset street	91 87	
Wiget street	14 71	
	<hr/>	993 26
Street Improvements, Ward 7 :		
Boylston street	\$9 00	
Dix street	62 56	
La Grange street	9 49	
Park street	168 20	
Winthrop square	47 32	
	<hr/>	296 ⁷ / ₂ 57
Street Improvements, Ward 8 :		
Bowdoin street	\$87 93	
Derne street	77 41	
Eaton street	9 57	
North Grove street	56 28	
North Russell street	60 86	
Staniford street	47 30	
	<hr/>	339 35
Street Improvements, Ward 9 :		
Bradford street	\$72 92	
Cobb street	7 95	
Mayo street	18 35	
Paul street	11 58	
Pelham street	15 41	
Upton street	34 52	
Washington street, Dover to Union		
Park street	38 13	
Waterford street	11 15	
	<hr/>	210 01
Street Improvements, Ward 10 :		
Boylston street	\$407 33	
Bryant street	1,378 19	
Church street	72 17	
Cortes street	334 21	
Dundee street	12 00	
Falmouth street	3,131 01	
Isabella street	110 33	
Knox street	142 32	
Massachusetts avenue	87 63	
Norway street	153 32	
	<hr/>	5,828 51
<i>Carried forward,</i>		<hr/>
		\$26,638 60

<i>Brought forward,</i>		\$26,638 60
Street Improvements, Ward 11 :		
Arlington street	\$559 91	
Beacon street	7,694 13	
Boylston street	20 00	
Mt. Vernon street	540 41	
Pinckney street	617 75	
	<hr/>	9,432 20
Street Improvements, Ward 12 :		
Concord square	\$162 26	
East Lenox street	35 59	
Greenwich Park	198 26	
Massachusetts avenue	29 25	
Newland street	48 02	
Reed street	108 67	
West Newton street	11 95	
	<hr/>	594 00
Street Improvements, Ward 16 :		
Boston street	\$15 25	
Brookford street	105 07	
Buttonwood street	129 00	
Cottage street	29 46	
Dacia street	95 69	
Dorchester avenue	75 24	
Ingleside street	99 00	
Judson street	312 00	
Magnolia street	38 51	
Mt. Vernon street	11 24	
Willow court	59 50	
Woodward Park street	37	
	<hr/>	970 33
Street Improvements, Ward 17 :		
Cottage street	\$104 00	
Howard avenue	1,342 13	
Hunne-man street	396 25	
Mall street	608 52	
Mt. Pleasant avenue	206 33	
Pontine street	9 06	
Shirley street	1,177 94	
Winslow street	1,041 80	
Zeigler street	426 06	
	<hr/>	5,312 09
Street Improvements, Ward 18 :		
Ball street	\$109 66	
Cunard street	144 03	
Ruggles street	73 19	
Sarsfield street	26 60	
Tremont street	25 20	
	<hr/>	
<i>Carried forward,</i>	\$378 68	\$42,947 22

<i>Brought forward,</i>	\$378 68	\$42,947 22
Walpole street	39 00	
Westminster street	194 12	
Williams street	577 12	
	<hr/>	1,188 92
Street Improvements, Ward 19 :		
Bromley street	\$31 50	
Centre street	12 50	
Conant street	3 76	
King street	6 25	
Minden street	16 50	
Walden street	10 00	
	<hr/>	80 51
Street Improvements, Ward 20 :		
Savin Hill avenue	\$180 14	
Talbot avenue	815 60	
	<hr/>	995 74
Street Improvements, Ward 21 :		
Bainbridge street		114 75
Street Improvements, Ward 22 :		
Arklow street	\$65 78	
Boylston street	729 69	
Bromley street	13 78	
Centre street	13 10	
Forbes street	211 03	
Heath street	97 51	
Minden street	15 00	
School street	49 34	
Washington street	222 72	
	<hr/>	1,417 95
Street Improvements, Ward 23 :		
Ashley street	\$15 00	
Burnett street	130 00	
Green street	143 00	
Keyes street	635 72	
Walk Hill street	278 32	
Williams street	253 70	
	<hr/>	1,455 74
Street Improvements, Ward 24 :		
Ashmont street	\$632 21	
Blue Hill avenue	147 07	
Butler street	172 87	
Centre street	160 25	
Dix street	152 62	
Euclid street	214 70	
Evans street	39 46	
Marsh street	46 76	
Medway street	21 58	
	<hr/>	
<i>Carried forward,</i>	\$1,587 52	\$48,200 83

<i>Brought forward,</i>	\$1,587 52	\$48,200 83
Milton avenue	83 93	
Morton street	58 10	
Norfolk street	115 00	
Richmond street	217 67	
Tenean street	5,029 43	
Washington street	246 54	
	<hr/>	7,338 19
		<hr/>
		\$55,539 02
Less overcredits on the following streets :		
Street Improvements, Ward 3 :		
Lexington street	\$13 63	
Vine street	6 80	
	<hr/>	\$20 43
Street Improvements, Ward 4 :		
Baldwin street	\$90 53	
Main street	208 97	
	<hr/>	299 53
Street Improvements, Ward 5 :		
Adams street	\$2 42	
Devens street	11 88	
	<hr/>	14 30
Street Improvements, Ward 14 :		
Broadway	\$326 88	
Fifth street	202 58	
First street	670 58	
L street	225 97	
	<hr/>	1,426 01
Street Improvements, Ward 15 :		
Fifth street	\$86 01	
G street	90 56	
H street	200 06	
Thomas park	156 88	
	<hr/>	533 51
	<hr/>	2,293 78
		<hr/>
		<u>\$53,245 24</u>

SCHEDULE C.

NEW WORK.

Beacon street, Charles to Park street, macadamized.

Labor	\$989 04
Teaming	670 00
Stone	1,508 35
Gravel	649 95
	<hr/>
	<u>\$3,817 34</u>

Fairfield street, Boylston to Beacon street, macadamized.

Labor	.	.	.	.	.	.	.	\$168 90
Teaming	.	.	.	.	.	.	.	880 50
Gravel	.	.	.	.	.	.	.	249 36
Stone	.	.	.	.	.	.	.	1,014 87
Paving	.	.	.	.	.	.	.	44 04
Steam roller	.	.	.	.	.	.	.	52 00
								<hr/>
								\$2,409 67
								<hr/>

Geneva avenue, Wilder street to Blue Hill avenue, macadamized.

Labor	.	.	.	.	.	.	.	\$131 20
Teaming	.	.	.	.	.	.	.	570 00
Stone	.	.	.	.	.	.	.	1,445 69
Steam roller	.	.	.	.	.	.	.	78 00
								<hr/>
								\$2,224 89
								<hr/>

Glenway street, Bradshaw street to Blue Hill avenue, macadamized.

Labor	.	.	.	.	.	.	.	\$755 34
Teaming	.	.	.	.	.	.	.	583 71
Gravel	.	.	.	.	.	.	.	107 25
Stone	.	.	.	.	.	.	.	2,287 82
Steam roller	.	.	.	.	.	.	.	195 00
Paving	.	.	.	.	.	.	.	12 43
								<hr/>
								\$3,941 55
								<hr/>

*DETAIL OF EXPENDITURES MADE UNDER
SPECIAL APPROPRIATIONS.***Abbotsford street,** Ward 21, widening and construction, edgestone set, gutters paved, sidewalks and crossings laid.

Labor	.	.	.	.	.	.	.	\$1,146 70
Teaming	.	.	.	.	.	.	.	499 00
Gravel	.	.	.	.	.	.	.	105 50
Edgestone	.	.	.	.	.	.	.	667 88
Flagging	.	.	.	.	.	.	.	238 22
Artificial stone sidewalks	.	.	.	.	.	.	.	157 80
Paving	.	.	.	.	.	.	.	249 49
								<hr/>
								\$3,064 59

Amount paid out of Abbotsford street,

Ward 21, \$570 00

Amount paid out of Street Improve-
ments, Ward 21

2,494 59

\$3,064 59

Adams street, from junction of Neponset avenue to Gibson street, widening on southerly side from Park street to Neponset avenue, paved with large granite blocks, edgestone reset and set, crossings laid, sidewalks relaid.

Labor	\$2,330 77
Teaming	2,638 50
Gravel	1,001 00
Blocks	1,703 52
Flagging	230 60
Stone	388 01
Edgestone	110 08
Paving	1,015 36
	<hr/>
	\$9,417 84

Amount of appropriation for Adams street, Ward 24, reconstruction .	\$7,500 00
Amount paid out of Paving Division .	872 36
Amount paid out of Street Improvements, Ward 24	1,045 48
	<hr/>
	\$9,417 84

Adelaide street, Ward 22, reconstruction, macadamized.

Labor	\$3,622 17
Teaming	2,519 00
Powder	183 48
Fuel	94 95
Sundries	41 90
	<hr/>
	\$6,461 50

Amount of appropriation for Adelaide street	\$4,000 00
Amount paid out of Street Improvements, Ward 22	2,458 50
Amount paid out of Street Improvements, Ward 23	3 00
	<hr/>
	\$6,461 50

Albany street, in front of Massachusetts Homœopathic Hospital, asphalted.

Labor	\$209 00
Teaming	244 50
Gravel	67 65
Sand	4 90
Bricks	192 27
Templets	24 67
Amount paid to Boston Asphalt Company:	
Asphalting	6,140 08
	<hr/>

Carried forward, \$6,883 07

<i>Brought forward,</i>	\$6,883 07
Amount paid out of appropriation for Albany street	\$6,140 08
Amount paid out of Street Improve- ments, Ward 12	704 34
Amount paid out of Paving Division	38 65
	<hr/>
	\$6,883 07

Appleton street, Dartmouth to Tremont street, macadam-
izing, gutters paved, edgestone reset, sidewalks relaid.

Labor	\$2,847 81
Teaming	3,637 50
Gravel	691 01
Sand	35 00
Stone	2,143 68
Steam roller	281 00
Blocks	1,030 17
Bricks	420 15
Masonry	540 50
Paving done by Jones & Meehan	3,002 18
	<hr/>
	\$14,629 00

Amount of special appropriation	\$13,300 00
Amount paid out of Paving Division	1,329 00
	<hr/>
	\$14,629 00

Boylston street, Berkeley to Clarendon street, asphalted,
edgestone reset, sidewalks relaid.

Labor	\$436 29
Teaming	223 50
Gravel	168 66
Sand	172 60
Edgestone	57 50
Bricks	560 00
Templets	43 36
Amount paid to J. B. O'Rourke, excavating	600 00
Amount paid to T. M. Gill, paving	1,234 69
Amount paid to Barber Asphalt Paving Company, asphalting	9,003 30
	<hr/>
	\$12,496 90

Amount of appropriation for Boylston street	\$12,496 90
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Cabot street, Linden Park to Vernon street, asphalted.

Labor	\$1,067 97
Teaming	902 00
Gravel	127 00
Edgestone	271 64
	<hr/>

<i>Carried forward,</i>	\$2,368 61
-------------------------	------------

<i>Brought forward,</i>	\$2,368 61
Bricks	105 00
Steam roller	65 00
Templets	29 90
Paving	259 02
Amount paid to Barber Asphalt Paving Company, asphalting	3,942 94
	<hr/>
	<u>\$6,770 47</u>

Calumet street, widening and construction.

Filling	\$324 00
Teaming	16 00
Stone	26 65
Sand	33 00
	<hr/>
	\$399 65
Amount paid out of appropriation for Calumet street	\$324 00
Amount paid out of Street Improve- ments, Ward 19	75 65
	<hr/>
	<u>\$399 65</u>

Carleton street, Ward 10, construction (work unfinished).

Labor	\$354 96
Teaming	39 00
Gravel	26 75
	<hr/>
	\$420 71
Amount paid out of Carleton street	\$354 96
Amount paid out of Paving Division	65 75
	<hr/>
	<u>\$420 71</u>

Centre street, Dorchester, reconstruction, macadamized, gutters repaved, edgestone reset.

Labor	\$2,814 32
Teaming	2,725 00
Gravel	591 58
Stone	1,511 66
Steam roller	260 00
Edgestone	36 56
Lumber	41 95
Artificial stone sidewalks	82 14
Sundries	30 00
Amount paid to James Dolan, paving	321 55
	<hr/>

Carried forward, \$8,414 76

<i>Brought forward,</i>		\$8,414 76
Amount of appropriation for Centre street	\$7,132 90	
Amount paid out of Street Improvements, Ward 24	792 29	
Amount paid out of Paving Division	489 57	
		<u>\$8,414 76</u>

Centre street, Roxbury, Hog bridge to Day street, reconstructed, macadamized, edgestone reset, gutters repaved, crossings and sidewalks laid.

Labor	\$4,025 10
Teaming	1,642 28
Gravel and sand	136 70
Stone	1,430 28
Steam roller	546 00
Bricks	205 01
Flagging	492 24
Blocks	154 54
Fuel	98 20
Amount paid to James Dolan, paving	930 28

\$9,660 63

Amount of appropriation	\$5,000 00
Amount paid out of Paving Division	1,247 30
Amount paid out of Street Improvements, Ward 22	3,413 33

\$9,660 63

Centre street, Ward 23, construction, Maple to Spring street, macadamized, gutters paved, edgestone set, sidewalks laid.

Labor	\$2,668 24
Teaming	1,983 03
Gravel and sand	649 50
Edgestone	121 39
Bricks	73 50
Blocks	114 50
Stone	4,462 07
Steam roller	429 00
Fuel	24 55
Amount paid to James Dolan, paving	331 92

\$10,857 70

Amount of special appropriation	\$10,000 00
Amount paid out of Paving Division	230 68
Amount paid out of Street Improvements, Ward 23	627 02

\$10,857 70

Charles street, Cambridge to Leverett street, paved with large granite blocks on a gravel base with pitch joints, edgestone reset, crossings and sidewalks relaid.

Labor	\$4,464 85
Teaming	3,751 00
Gravel	857 46
Sand	141 77
Edgestone	39 83
Flagging	572 50
Bricks	328 88
Blocks	9,293 16
Masonry	165 50
Amount paid to D. J. Kiley, paving	8,622 33

\$28,237 28

Amount of special appropriation	\$19,935 39
Amount paid out of Paving Division	409 39
Amount paid out of Street Improve- ments, Ward 8	7,892 50

\$28,237 28

Commonwealth avenue.

Labor	\$13,161 09
Teaming	3,933 50
Gravel	1,170 54
Loam	1,519 26
Edgestone	193 00
Blocks	1,352 56
Stone	6,074 31
Steam roller	897 00
Fuel	59 70
Hardware	4 00
Amount paid to M. Kiernan, excavating	931 00
Amount retained from Boston Asphalt Company for work done in 1896	182 08
Amount paid to Boston Contracting Company, under execution of court	1,627 19
Amount paid to H. Gore & Co., paving	129 19
Amount paid to Geo. H. Wentworth & Co.	618 57

\$31,852 99

Amount paid out of Commonwealth avenue	\$27,651 01
Amount paid out of Paving Division	4,201 98

\$31,852 99

Congress and L streets, repaired.

Labor	\$457 11
Teaming	45 00

Carried forward,

\$502 11

<i>Brought forward,</i>	\$502 11
Screenings	224 20
Gravel and sand	170 17
Blocks	31 60
Bricks	10 50
Amount paid to H. Gore & Co., paving	790 25
Work done by the Sewer Division	11 32
Work done by the Bridge Division	1,218 46
	<hr/>
	\$2,958 61

Dudley street, Brook avenue to Upham's corner, paved with large granite blocks on a gravel base, edgestone reset, sidewalks relaid, crossings laid.

Labor	\$8,010 33
Teaming	8,978 00
Gravel	1,305 70
Sand	559 20
Blocks	12,685 86
Bricks	262 50
Cement	10 00
Edgestone	5 66
Stone	560 71
Steam roller	550 00
Flagging	1,533 88
Amount paid to Doherty & Connors, paving	1,508 33
Amount paid to T. M. Gill	2,740 26
	<hr/>
	\$38,710 43

Amount paid out of Dudley street	\$33,804 75
Amount paid out of Paving Division	402 14
Amount paid out of Street Improve- ments, Ward 16	4,503 54

\$38,710 43

Franklin street, Ward 25, Fern to North Harvard street, macadamized.

Labor	\$455 10
Teaming	128 50
Gravel	349 80
Steam roller	104 00
Stone	884 71
Amount paid to Geo. H. Wentworth & Co.	318 59

\$2,240 70

Amount of special appropriation	\$1,700 52
Amount paid out of Paving Division	540 18

\$2,240 70

Freeport street, Ward 24, retaining-wall.

Labor, engineering	\$93 75
------------------------------	---------

Gold street bridge (under construction).

Labor	\$430 07
Teaming	115 50
Filling	1,075 85
Land damages	25,601 96
	<hr/>
	\$27,223 38
Amount of special appropriation	\$21,223 38
Amount to be provided for	6,000 00
	<hr/>
	\$27,223 38

Lamartine street, Ward 22, paved with large granite blocks. .

Labor	\$2,144 50
Teaming	2,998 54
Gravel	941 25
Stone	539 91
Blocks	2,454 43
Artificial stone sidewalks	36 48
Amount paid to Jones & Meehan, paving	1,385 56
	<hr/>
	\$10,500 67
Amount of special appropriation	\$10,000 00
Amount paid out of Paving Division	500 67
	<hr/>
	\$10,500 67

Lincoln place, Worcester to West Springfield street, asphalted and regulated.

Labor	\$417 31
Teaming	113 00
Flagging	5 37
Blocks	5 33
Gravel	5 00
Masonry	52 50
Templets	12 01
Amount paid to Barber Asphalt Paving Com- pany asphaltting	889 48
	<hr/>
	\$1,500 00
Amount of special appropriation	\$1,500 00

McLellan street, Old Road to White street (unfinished work from 1896).

Labor	\$2,192 58
Teaming	1,464 00
Stone	263 29
Paving	32 32
Sundries	12 50

Carried forward,\$3,964 69

<i>Brought forward,</i>		\$3,964 69
Amount paid out of McLellan street	\$1,699 56	
Amount paid out of Paving Division	425 97	
Amount paid out of Street Improvements, Ward 20.	1,839 16	
		<u>\$3,964 69</u>

North Margin street, Thacher to Endicott street, asphalted, edgestones reset, brick sidewalks relaid.

Labor	\$548 58
Teaming	264 00
Gravel and sand	36 85
Bricks	80 00
Edgestone	24 38
Masonry	49 00
Templets	17 52
Amount paid to P. H. Bradley & Co., paving	391 58
Amount paid to Boston Asphalt Company, asphalt-ing	1,412 23
	<u>\$2,824 14</u>

Amount paid out of North Margin street,	\$1,415 98
Amount paid out of Paving Division	36 85
Amount paid out of Street Improvements, Ward 6	1,371 31

\$2,824 14

Quincy street, Ward 4 (now St. Martin st.).

Labor	\$875 90
Teaming	354 50
Gravel	224 40
Bricks	380 00
Stone	524 32
Edgestone	690 58
Loam	102 00
Lumber	12 70
Amount paid to P. Brennan & Co., paving	332 43
Cement	3 30
Work done by the Sewer Division	16 31

\$3,516 44

Rand street, Roxbury, reconstruction, macadamized, gutters paved.

Labor	\$1,684 30
Teaming	310 08
Gravel	63 75

Carried forward,

\$2,058 13



STATE STREET UNDER CONSTRUCTION, SHOWING GRANITE BLOCK PAVING PITCH JOINTS ON A CONCRETE BASE.

STREET DEPARTMENT — PAVING DIVISION. 85

<i>Brought forward,</i>	\$2,058 13
Stone	500 35
Blocks	371 85
	<hr/>
	\$2,930 33

Amount paid out of Rand street . . .	\$1,995 45
Amount paid out of Paving Division . .	149 23
Amount paid out of Street Improve- ments, Ward 16	785 65
	<hr/>
	\$2,930 33

South Union Station, paving done on Cove, Federal and Summer streets.

Labor	\$2,007 74
Teaming	1,328 50
Edgestone	133 85
Gravel and sand	625 10
Masonry	31 50
Bricks	90 42
Amount paid to H. P. Nawn, excavating . .	1,371 45
Amount paid to T. M. Gill, paving . . .	1,448 42
	<hr/>
	\$7,036 98

Amount paid out of South Union Station, \$6,885 28	
Amount paid out of Paving Division . . .	151 70
	<hr/>
	\$7,036 98

State street, Washington to Commercial street, paved with large granite blocks on a concrete base with pitch joints, edgestones reset, flagging crossings and sidewalks relaid.

Labor	\$5,267 27
Teaming	4,215 00
Gravel	668 67
Sand	26 35
Edgestone	259 42
Flagging	1,876 89
Blocks	5,261 38
Cement	23 10
Lumber	44 99
Masonry	187 50
Templets	50 02
Artificial stone sidewalks	383 14
Sundries	37 62
Amount paid to Metropolitan Construction Com- pany, concrete base	4,288 30
Amount paid to H. Gore & Co., paving . .	5,248 71
Work done by the Sewer Division	125 70
	<hr/>

Carried forward, \$27,964 06

<i>Brought forward,</i>	\$27,964 06
Amount of special appropriation . . . \$18,000 00	
Amount paid out of Paving Division . . . 11 40	
Amount paid out of Street Improve- ments, Ward 6 9,952 66	
	<u>\$27,964 06</u>

Sydney street, Ward 20, Hartland street to Crescent avenue,
macadamized, gutters paved, sidewalks gravelled.

Labor	\$1,127 55
Teaming	798 50
Gravel and sand	762 98
Filling	1,166 10
Stone	1,313 58
Lumber	53 65
Amount paid to James Dolan, paving	338 18
	<u>\$5,560 54</u>

Tremont street, Lenox street to Roxbury crossing, paved
with large granite blocks, edgestones reset, flagging crossings
laid, brick sidewalks relaid.

Labor	\$8,174 60
Teaming	8,694 50
Blocks	9,785 24
Bricks	886 00
Gravel and sand	2,797 90
Flagging	777 61
Sundries	43 77
Amount paid to Jones & Meehan, paving	2,595 03
Amount paid to Barnes, Ruffin & Co., paving	1,441 46

	\$35,196 11
Amount of special appropriation . . . \$17,024 45	
Amount paid out of Paving Division . . . 25 20	
Amount paid out of Street Improve- ments, Ward 18 12,127 90	
Amount paid out of Street Improve- ments, Ward 19 6,018 56	
	<u>\$35,196 11</u>

Unity street, Charter to Tileston street, asphalted, edgestone
reset, sidewalks relaid.

Labor	\$784 42
Teaming	359 50
Sand	12 40
Bricks	100 00
Masonry	17 50

Carried forward, \$1,273 82

<i>Brought forward,</i>	\$1,273 82
Templets	19 06
Paving	97 78
Amount paid to Barber Asphalt Paving Company, asphalting	1,424 43
	<hr/>
	\$2,815 09
Amount paid out of Unity street	\$2,651 94
Amount paid out of Paving Division	12 40
Amount paid out of Street Improve- ments, Ward 6	150 75
	<hr/>
	<u>\$2,815 09</u>

Washington street, Dover to Waltham street, paved with large granite blocks on a concrete base, with pitch joints, edgestones reset, brick sidewalks and crossings relaid.

Labor	\$2,660 60
Teaming	4,931 50
Gravel and sand	1,151 45
Edgestone	867 82
Blocks	6,793 07
Bricks	723 96
Cement	21 40
Templets	18 26
Flagging	113 45
Masonry	465 75
Artificial stone sidewalks	482 92
Hardware	4 00
Amount paid to H. P. Nawn, excavating	1,691 08
Amount paid to Jones & Meehan, paving	7,279 42
	<hr/>
	\$27,204 68

Amount of special appropriation,	\$20,000 00
Amount paid out of Paving Division	381 80
Amount paid out of Street Improve- ments, Ward 9	6,822 88
	<hr/>
	<u>\$27,204 68</u>

Washington street, Eliot to Dover street, paved with large granite blocks on a concrete base, with pitch joints, edgestones reset, crossings relaid.

Labor	\$11,151 25
Teaming	8,537 00
Gravel and sand	1,280 40
Bricks	1,673 46
Flagging	1,463 58
Edgestone	1,454 79
Blocks	9,473 74
Cement	11 00
	<hr/>

Carried forward, \$35,045 22

<i>Brought forward,</i>	\$35,045 22
Templets	63 08
Masonry	712 00
Printing	24 00
Amount paid to William Higgins, paving . .	10,486 03
Amount paid to Jones & Meehan, paving . .	9,116 83
Amount paid to J. B. O'Rourke	44 25
Work done by the Sewer Division	138 97

 \$55,630 38

Amount of special appropriation .	\$35,000 00
Amount paid out of Street Improve- ments, Ward 7	4,737 86
Amount paid out of Street Improve- ments, Ward 9	15,892 52
	<hr/>
	<u>\$55,630 38</u>

**Western avenue, Market to North Harvard street, macad-
amized.**

Labor	\$4,422 92
Teaming	2,307 50
Stone	3,988 59
Steam roller	429 00
Gravel	995 34
Amount paid to James Grant, paving . . .	278 93
Amount paid to D. J. Kiley, paving . . .	659 34
Amount paid to Geo. H. Wentworth & Co., paving,	599 71
Work done by the Sewer Division	8 15

 \$13,689 48

Amount of special appropriation .	\$10,000 00
Amount paid out of Paving Division .	1,914 99
Amount paid out of Street Improve- ments, Ward 25	1,774 49
	<hr/>
	<u>\$13,689 48</u>

Wharf and Buildings, East Boston, purchase of.

Amount paid to Francis Lally, for lot of land front- ing on Chelsea street	\$15,000 00
Amount of special appropriation	<u>\$15,000 00</u>

STREET IMPROVEMENTS, WARD 1.

Bennington street, repaired.

Labor	\$45 00
Teaming	24 00
	<hr/>
	<u>\$69 00</u>

Border street, North Ferry to Condor street, repaved, edge-stone reset, sidewalks and crossings laid and relaid.

Labor	\$5,796 69
Teaming	1,364 50
Gravel and sand	3,143 00
Bricks	1,400 00
Flagging	336 45
Amount paid to Ward & Conlin, paving	7,698 53

\$19,739 17

Amount paid out of Street Improve-
ments, Ward 1 . . . \$7,797 77

Amount paid out of Street Improve-
ments, Ward 2 . . . 11,941 40

\$19,739 17

Bremen street, edgestones reset, gutters repaved, sidewalks relaid.

Labor	\$190 72
Teaming	1,067 50
Gravel	1,568 00
Paving	116 21

\$2,942 43

Amount paid out of Street Improve-
ments, Ward 1 . . . \$2,426 75

Amount paid out of Street Improve-
ments, Ward 2 . . . 88 00

Amount paid out of Paving Division . . . 427 68

\$2,942 43

Brooks street, gravelled.

Gravel	\$35 00
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Byron street, gravelled.

Gravel	\$65 80
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Condor street, Meridian to Brooks street, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$898 65
Teaming	172 00
Gravel	253 40
Advertising	9 20
Amount paid to Ward & Conlin, paving	350 71

\$1,183 96

Amount paid out of Street Improve-
ments, Ward 1 . . . \$1,138 96

Amount paid out of Street Improve-
ments, Ward 2 . . . 45 00

\$1,183 96

Glendon street, East Eagle to Condor street, edgestones reset, gutters repaved, sidewalks relaid.

Gravel	\$193 20
Teaming	164 50
Amount paid to Ward & Conlin, paving . . .	172 08
	<hr/>
	\$529 78

Amount paid out of Street Improve- ments, Ward 1	\$459 78
Amount paid out of Paving Division . . .	70 00
	<hr/>

\$529 78

Homer street, Moore to Wordsworth street, gutters paved, sidewalks rebuilt.

Gravel	\$127 40
Teaming	34 00
Amount paid to Ward & Conlin, paving . . .	68 20
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	\$229 60

Amount paid out of Street Improve- ments, Ward 1	\$161 40
Amount paid out of Paving Division . . .	68 20
	<hr/>

\$229 60

Horace street, Moore to Wordsworth street, gutters paved, sidewalks rebuilt.

Gravel	\$70 00
Teaming	51 00
Amount paid to Ward & Conlin, paving . . .	72 70
	<hr/>
	\$193 70

Amount paid out of Street Improve- ments, Ward 1	\$121 00
Amount paid out of Paving Division . . .	72 70
	<hr/>

\$193 70

Lexington street, Meridian to Prescott street, paved with old granite blocks, edgestone reset, brick sidewalks relaid.

Labor	\$3,572 90
Teaming	2,260 00
Gravel	350 00
Bricks	400 00
Amount paid to Ward & Conlin, paving . . .	2,015 45
	<hr/>

\$8,598 35

Amount paid out of Street Improve- ments, Ward 1	\$5,124 80
Amount paid out of Street Improve- ments, Ward 2	1,299 29
Amount paid out of Paving Division . . .	2,174 26
	<hr/>

\$8,598 35

Meridian street, West Eagle to Condor street, gutters repaved, sidewalks relaid.

Gravel and sand	\$191 80
Teaming	115 50
Amount paid to Ward & Conlin, paving	218 06
	<hr/>
	\$525 36

Amount paid out of Street Improvements, Ward 1 \$185 50

Amount paid out of Street Improvements, Ward 2 218 06

Amount paid out of Paving Division 121 80

\$525 36

Moore street, Saratoga to Bennington street, edgestones reset, gutters repaved, sidewalks relaid.

Labor	\$619 00
Teaming	1,061 50
Gravel and sand	329 00
Stone	424 97
Bricks	50 00
Flagging	56 28
Advertising	10 20
Amount paid to Ward & Conlin, paving	104 19

\$2,655 14

Prescott street, gutters repaved, sidewalks relaid.

Labor	\$157 25
Teaming	67 00
Gravel	21 00
Bricks	50 00
Amount paid to Ward & Conlin, paving	91 00

\$386 25

Amount paid out of Street Improvements, Ward 1 \$138 00

Amount paid out of Paving Division 248 25

\$386 25

Princeton street, gutters paved, edgestone reset, sidewalks relaid.

Labor	\$176 35
Teaming	121 00
Gravel	25 20
Amount paid to Ward & Conlin, paving	110 80

\$433 35

Amount paid out of Street Improvements, Ward 1 \$146 20

Amount paid out of Paving Division 287 15

\$433 35

Putnam street, repaired.

Labor	\$19 25
Teaming	35 00
Gravel	299 50
	<hr/>
	\$353 75

Saratoga street, Wordsworth street to Winthrop Junction, filled to grade.

Labor	\$457 00
Teaming	237 50
Gravel and filling	2,066 85
Amount paid to Ward & Conlin, paving	188 33
	<hr/>
	\$2,949 68

Amount paid out of Street Improve- ments, Ward 1	\$2,709 18
Amount paid out of Street Improve- ments, Ward 2	115 00
Amount paid out of Paving Division	125 50
	<hr/>

\$2,949 68**Sumner street.**

Bricks	\$50 00
Paving	25 33
	<hr/>
	\$75 33

Amount paid out of Street Improve- ments, Ward 1	\$25 33
Amount paid out of Street Improve- ments, Ward 2	50 00
	<hr/>

\$75 33**Walley street, repaired.**

Labor	\$553 63
Teaming	481 00
	<hr/>
	\$1,034 63

Amount paid out of Street Improve- ments, Ward 1	\$935 63
Amount paid out of Street Improve- ments, Ward 2	99 00
	<hr/>

\$1,034 63**West Eagle street, edgestone set, gutters paved.**

Labor	\$227 50
Teaming	45 00
Paving	43 26
	<hr/>

\$315 76

White street, repaired.

Labor	\$65 25
Sand	70 00

 \$135 25

Work done by the Sewer Division	<u>\$148 16</u>
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STREET IMPROVEMENTS, WARD 2.

Chelsea street, repaired.

Teaming	<u>\$119 00</u>
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Everett street, Orleans to Jeffries street, gravelled, edgestone reset, gutters repaved, brick sidewalks and flagging crossings laid.

Labor	\$2,038 32
Teaming	1,278 50
Gravel and sand	2,585 80
Edgestone	20 10
Bricks	550 00
Blocks	26 94
Flagging	280 00
Amount paid to Ward & Conlin, paving	1,769 06

 \$8,548 72
Ferry avenue, plankwalk laid.

Lumber	<u>\$105 96</u>
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Havre street, resurfaced.

Labor	\$408 87
Teaming	11 00

 \$419 87

 Amount paid out of Street Improve-
ments, Ward 2 \$11 00

Amount paid out of Paving Division 408 87

 \$419 87
Lamson street, repaired.

Gravel	<u>\$56 00</u>
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Liverpool street, edgestone set, sidewalks laid.

Labor	\$179 08
Teaming	84 00
Gravel	84 00
Paving	143 60

 \$490 68

 Amount paid out of Street Improve-
ments, Ward 2 \$84 00

Amount paid out of Paving Division 406 68

 \$490 68

London street, Decatur to Maverick street, edgestone reset, gutters repaved, sidewalks relaid.

Labor	.	.	.	.	.	.	.	\$222 21
Teaming	.	.	.	.	.	.	.	73 00
Gravel and sand	.	.	.	.	.	.	.	329 00
Bricks	.	.	.	.	.	.	.	155 00
Amount paid to Ward & Conlin, paving	.	.						486 26

\$1,265 47

Amount paid out of Street Improvements, Ward 2,

Amount paid out of Paving Division . \$890 65

374 82

\$1,265 47

Maverick street, edgestones set, sidewalks laid.

Labor	.	.	.	.	.	.	.	\$249 02
Teaming	.	.	.	.	.	.	.	165 82
Gravel and sand	385 00
Paving	25 04

\$824 88

Morris street, repaired.

Gravel	\$140 00
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Porter street, Bennington to Bremen street, gravelled, edgestones set, brick sidewalks laid.

Labor	.	.	.	.	.	.	.	\$200 10
Teaming	.	.	.	.	.	.	.	107 00
Gravel and sand	.	.	.	.	.	.	.	287 00
Bricks	.	.	.	.	.	.	.	110 00
Amount paid to Ward & Conlin, paving	.	.						633 82

\$1,337 92

Amount paid out of Street Improvements, Ward 2

\$489 96

Amount paid out of Paving Division . 847 96

\$1,337 92

Work done by the Sewer Division . . . \$211 36

STREET IMPROVEMENTS, WARD 3:

Concord street, Bunker Hill street to Monument square, macadamized, edgestones reset, gutters repaved, brick sidewalks relaid.

Labor	.	.	.	.	.	.	.	\$718 95
Teaming	.	.	.	.	.	.	.	312 50
Gravel	.	.	.	.	.	.	.	234 60

Carried forward,

\$1,266 05

<i>Brought forward,</i>	\$1,266 05
Bricks	100 00
Stone	548 09
Lumber	15 91
Cement	3 30
Amount paid to P. H. Brennan & Co., paving .	278 58
	<hr/>
	<u>\$2,211 93</u>

Decatur street,

Edgestone	<u>\$4 90</u>
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High street, Winthrop to Salem street, macadamized.

Labor	\$158 40
Teaming	142 50
Gravel	141 10
Stone	236 65
	<hr/>
	\$678 65

Amount paid out of Street Improve-
ments, Ward 3

\$502 75

Amount paid out of Street Improve-
ments, Ward 5

175 90

\$678 65

Hull street, repaired.

Labor	<u>\$275 10</u>
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Lexington street, Medford street to Monument square, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,835 46
Teaming	828 00
Gravel	552 50
Stone	1,073 61
Bricks	276 23
Edgestone	5 37
Amount paid to P. H. Brennan & Co., paving .	625 00
	<hr/>

\$5,196 17

Medford street, brick sidewalks laid.

Bricks	\$71 25
Paving	27 85
	<hr/>

\$99 10

Amount paid out of Street Improve-
ments, Ward 3

\$27 85

Amount paid out of Street Improve-
ments, Ward 4

71 25

\$99 10

Monument street, Monument square to Bunker Hill street, macadamized, edgestones reset, gutters repaved, brick sidewalks relaid.

Labor	\$680 15
Teaming	369 00
Gravel	188 70
Bricks	50 00
Stone	465 55
Lumber	15 91
Edgestone	5 60
Amount paid to P. H. Brennan & Co., paving .	318 58

\$2,093 49

Princeton street, brick sidewalks laid.

Paving	\$8 55
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Sprague street.

Teaming	\$1 50
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Trenton street, Bunker Hill to Bartlett street, macadamized, gutters paved, edgestones reset, brick sidewalks relaid.

Labor	\$614 00
Teaming	297 00
Gravel	234 60
Masonry	14 00
Bricks	80 00
Stone	405 65
Amount paid to P. H. Brennan & Co., paving .	265 61

\$1,910 86

Vine, Tufts, Moulton and Corey streets, macadamized and asphalted on all sides of St. Catharine's Church, edgestones reset, gutters repaved, sidewalks and crossings relaid.

Labor	\$1,255 36
Teaming	1,287 00
Gravel	537 20
Edgestone	135 75
Masonry	91 00
Stone	639 62
Bricks	278 00
Flagging	178 92
Cement	2 00
Templets	66 39

Amount paid to Barber Asphalt Paving Company, asphaltting	6,060 24
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Amount paid to P. H. Brennan & Co., paving .	2,424 29
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\$12,955 77

Work done by the Sewer Division	\$19 48
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STREET IMPROVEMENTS, WARD 4.

Alford street, bridge to Everett line (work unfinished).

Labor	\$2,573 73
Teaming	263 00
Gravel	413 10
Stone	859 38
Edgestone	40 70
Paving	231 25
	<hr/>
	<u>\$4,381 16</u>

Arlington avenue, resurfaced.

Labor	\$256 28
Teaming	102 00
Gravel	96 90
Paving	66 98
Water	9 00
	<hr/>
	<u>\$531 16</u>

Auburn street, Main to Bunker Hill street, macadamized, edgestones reset, gutters repaved, brick sidewalks relaid.

Labor	\$326 75
Teaming	511 50
Gravel	227 80
Stone	141 33
Bricks	75 00
Cement	1 00
Amount paid to Haley & O'Hara, paving . . .	577 55
	<hr/>
	<u>\$1,860 93</u>

Baldwin street, Main to Medford street, macadamized, edgestones reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,272 24
Teaming	1,163 00
Gravel	392 70
Stone	594 22
Bricks	264 82
Edgestone	6 06
Masonry	106 20
Amount paid to P. H. Brennan & Co., paving .	557 53
	<hr/>
	<u>\$4,356 77</u>

Beacham street (work unfinished).

Labor	<u>\$762 30</u>
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Dorrance street, Main street to Arlington avenue, macadamized, edgestones reset, gutters repaved, crossings laid, brick sidewalks relaid.

Labor	\$206 95
Teaming	139 00
Gravel	215 90
Bricks	90 00
Flagging	68 77
Lumber	31 65
Amount paid to Haley & O'Hara, paving	519 84

\$1,272 11

Gardner street, resurfaced.

Labor	\$62 10
Teaming	52 50
Gravel	25 50

\$140 10

Main street, Miller to Oak street, repaved with large granite blocks, edgestones reset, crossings and brick sidewalks relaid.

Labor	\$2,701 32
Teaming	2,222 00
Gravel	1,871 70
Blocks	9,737 78
Flagging	400 57
Bricks	410 62
Masonry	34 20
Lumber	31 55
Cement	20 40
Oil	9 27
Hardware	9 91
Amount paid to John Turner & Co., paving	5,107 72

\$22,557 04

Amount paid out of Street Improvements, Ward 4 \$9,585 67

Amount paid out of Street Improvements, Ward 5 12,971 37

\$22,557 04

Mead street, Main to Russell street, macadamized, edgestones reset, gutters repaved, brick sidewalks relaid.

Labor	\$121 25
Teaming	165 50
Gravel	181 90
Stone	407 70

Carried forward,

\$876 35

STREET DEPARTMENT — PAVING DIVISION. 99

<i>Brought forward,</i>	\$876 35
Bricks	120 00
Amount paid to Haley & O'Hara, paving	430 13
	<hr/>
	\$1,426 48

Amount paid out of Street Improve- ments, Ward 4	\$1,018 78
Amount paid out of Street Improve- ments, Ward 5	407 70
	<hr/>
	<u>\$1,426 48</u>

Short street, resurfaced.

Labor	\$32 00
Teaming	80 00
Gravel	27 20
Stone	38 90
	<hr/>
	\$178 10

Amount paid out of Street Improve- ments, Ward 4	\$139 20
Amount paid out of Street Improve- ments, Ward 3	38 90
	<hr/>
	<u>\$178 10</u>

Sullivan street, Main to Bunker Hill street, macadamized, edgestones reset, gutters repaved, flagging crossings laid, brick sidewalks relaid.

Labor	\$463 70
Teaming	235 00
Gravel	360 40
Bricks	180 00
Flagging	560 00
Amount paid to Haley & O'Hara, paving	900 47
	<hr/>
	\$2,699 57

Amount paid out of Street Improve- ments, Ward 4	\$2,419 57
Amount paid out of Street Improve- ments, Ward 3	280 00
	<hr/>
	<u>\$2,699 57</u>

Walker street.

Teaming	<u>\$80 00</u>
Work done by Sewer Division	<u>\$23 01</u>

STREET IMPROVEMENTS, WARD 5.

Adams street, Mt. Vernon to Winthrop street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,160 04
Teaming	375 50
Gravel	283 90
Bricks	63 75
Stone	606 32
Masonry	16 51
Cement	1 00
Amount paid to P. H. Brennan & Co., paving .	385 66

\$2,892 68

Amount paid out of Street Improvements, Ward 5 \$2,715 68

Amount paid out of Street Improvements, Ward 3 177 00

\$2,892 68

Boyle street, Cordis to Pleasant street, edgestone set, gutters paved, sidewalks relaid, paved with old blocks.

Labor	\$232 30
Teaming	101 00
Edgestone	82 15
Paving	92 13

\$507 58

Charles River avenue, repaired.

Labor	\$98 60
Teaming	23 50
Flagging	63 50
Gravel	4 00
Blocks	13 47

\$203 07

Common street, Adams to Winthrop street, macadamized, edgestone reset, gutters repaved, sidewalks relaid.

Labor	\$745 95
Teaming	388 00
Gravel	222 70
Stone	512 15
Bricks	105 00
Cement	1 00
Amount paid to P. H. Brennan & Co., paving .	353 37

\$2,328 17

Devens street, Washington street to Rutherford avenue, paved with large granite blocks, edgestone reset, brick sidewalks relaid, flagging crossings laid.

Labor	\$640 17
Teaming	498 00
Gravel	227 80
Bricks	38 12
Blocks	1,047 07
Edgestone	105 00
Flagging	236 88
Masonry	19 53
Amount paid to Haley & O'Hara, paving	332 99

\$3,145 56

Joiner street.

Gravel	\$25 50
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Park street, Warren to Common street, macadamized, edgestones reset, gutters repaved, brick sidewalks relaid.

Labor	\$292 63
Teaming	215 50
Gravel	192 10
Stone	445 34
Bricks	110 00
Amount paid to P. H. Brennan & Co., paving	197 99

\$1,453 56

Putnam street, repaired.

Labor	\$34 50
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Rutherford avenue, work unfinished.

Labor	\$207 25
Teaming	90 50
Paving	48 00
Templets	20 26

\$366 01

Amount paid out of Street Improvements,

Ward 5 \$275 51

Amount paid out of Street Improvements,

Ward 4 90 50

\$366 01

Warren avenue, City square to railroad crossing. Repaired with granite blocks, edgestones reset

Labor	\$460 73
Teaming	59 50
Gravel	187 00
Bricks	140 00

\$847 23

Water street, Warren avenue to Joiner street, repaved with granite blocks.

Labor	\$130 60
Teaming	24 00
Water	8 00
	<hr/>
	\$162 60

Work done by the Sewer Division	<u>\$1 63</u>
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STREET IMPROVEMENTS, WARD 6.

Atlantic avenue, repaired.

Labor	\$633 42
Teaming	122 00
	<hr/>
	\$755 42

Amount paid out of Street Improvements, Ward 6 \$716 42

Amount paid out of Paving Division, Ward 6 39 00

\$755 42

Batterymarch street.

Amount retained from Barber Asphalt Paving Company, for work done in 1896, under contract \$64 33

Beacon street.

Gravel \$36 00

Blackstone street, at Fulton street.

Labor \$266 35

Bulfinch street, Allston to Cambridge street, paved with large granite blocks on a concrete base with pitch joints, edgestones reset, brick sidewalks relaid, crossings relaid.

Labor	\$423 31
Teaming	443 50
Gravel and sand	14 00
Bricks	45 25
Edgestone	50 05
Blocks	512 58
Masonry	28 00
Templets	22 32

Amount paid to Metropolitan Construction Company:

Excavating \$115 50

Concrete base 415 63

531 13

Carried forward,

\$2,070 14

<i>Brought forward,</i>	\$2,070 14
Amount paid out of Street Improve- ments, Ward 6	\$2,026 74
Amount paid out of Street Improve- ments, Ward 8	24 15
Amount paid out of Paving Division	19 25
	<hr/>
	\$2,070 14

Clark street, North to Commercial street, repaved with large granite blocks, edgestones reset, brick sidewalks relaid.

Labor	\$785 54
Teaming	249 50
Gravel and sand	111 25
Blocks	369 32
Bricks	35 00
	<hr/>
	\$1,550 61

Commercial street, State to Central street, repaved.

Labor	\$236 80
Teaming	23 00
Blocks	22 25
	<hr/>
	\$282 05

Congress street, State street to Exchange place, paved with large granite blocks on a concrete base with pitch joints, edgestone reset, brick sidewalks and crossings relaid.

Labor	\$919 18
Teaming	624 50
Gravel	83 21
Edgestone	64 01
Flagging	14 15
Bricks	80 00
Blocks	40 70
Masonry	28 00
Amount paid to Metropolitan Construction Com- pany, concrete base	1,022 00
Amount paid to H. Gore & Co., paving	962 65
	<hr/>
	\$3,838 40

Amount paid out of Street Improve- ments, Ward 6	\$3,642 03
Amount paid out of Paving Division	196 37
	<hr/>
	\$3,838 40

Cooper street, Endicott to Stillman street, asphalted.

Labor	\$107 25
Teaming	72 00
Amount paid to Barber Asphalt Paving Company, asphalting	1,196 79
	<hr/>
	\$1,376 04

Foster street, Charter to Commercial street, macadamized,
gutters repaved, edgestones reset, sidewalks relaid.

Labor	\$337 65
Teaming	162 50
Gravel and sand	36 25
Bricks	89 90
Edgestone	56 21
Masonry	14 00
Amount paid to P. H. Bradley & Co., paving .	116 73

\$813 24

Amount paid out of Street Improve-

ments, Ward 6 \$680 88

Amount paid out of Paving Division . 132 36

\$813 24

Hanover street.

Amount retained from Boston Asphalt Company
for work done in 1896, under contract . . .

\$138 51

Harris street, concrete sidewalks.

Labor \$1 50

Amount paid to Simpson Bros. Company, con-
creting 216 26

\$217 76

Lafayette avenue, Prince to Endicott street, repaired.

Labor \$152 26

Teaming 153 00

Gravel and sand 22 85

Bricks 133 60

Paving 79 06

\$540 77

Amount paid out of Street Improve-

ments, Ward 6 \$384 32

Amount paid out of Paving Division . 156 45

\$540 77

Lime alley, Charter to Commercial street, repaired.

Labor \$276 65

Teaming 44 00

Gravel and sand 15 60

Paving 54 93

\$391 18

Amount paid out of Street Improve-

ments, Ward 6 \$375 58

Amount paid out of Paving Division . 15 60

\$391 18

North street, Merchant's row to Union street, repaved with large granite blocks on a concrete base with pitch joints, edgestones reset, brick sidewalks relaid.

Labor	\$461 14
Teaming	372 00
Gravel	69 62
Blocks	345 00
Bricks	70 00
Edgestone	29 03
Masonry	10 50
Paving	26 75
Amount paid to Metropolitan Construction Company, concrete base.	584 94
	<hr/>
	\$1,968 98

Amount paid out of Street Improvements, Ward 6	\$1,899 36
Amount paid out of Paving Division	69 62
	<hr/>

\$1,968 98

Somerset street, repaired.

Labor	\$224 20
Stone	91 87
	<hr/>
	\$316 07

Amount paid out of Street Improvements, Ward 6	\$224 20
Amount paid out of Paving Division	91 87
	<hr/>

\$316 07

Subway repairs.

Labor	\$98 80
Teaming	81 00
	<hr/>
	\$179 80

Water street.

Amount retained from Barber Asphalt Paving Company, for work done in 1896, under contract	\$98 67
	<hr/>

Wiget street, North Margin to Salem street, asphalted, edgestone reset, brick sidewalks relaid.

Labor	\$640 95
Teaming	227 00
Gravel	14 71
Edgestone	12 35
Bricks	50 00
Masonry	34 00
Templets	17 76
	<hr/>

Carried forward,

\$996 77

<i>Brought forward,</i>	\$996 77
Amount paid to Barber Asphalt Paving Company, asphalting	674 88
	<hr/>
	\$1,671 65
Amount paid out of Street Improve- ments, Ward 6	\$1,656 94
Amount paid out of Paving Division	14 71
	<hr/>
	<u>\$1,671 65</u>

STREET IMPROVEMENTS, WARD 7.

Atlantic avenue, repaired.	
Labor	\$342 45
Teaming	9 00
	<hr/>
	\$351 45
Avery street, asphalted.	
Labor	\$112 31
Edgestone	105 89
Artificial stone sidewalks	104 46
Amount paid to Boston Asphalt Company, asphalt- ing	981 52
	<hr/>
	<u>\$1,304 18</u>
Boylston street, Washington street to Park square, edgestone reset, crossings relaid, roadway repaired.	
Labor	\$72 75
Teaming	382 00
Gravel	25 20
Amount paid to T. M. Gill, paving	383 25
	<hr/>
	\$863 20
Amount paid out of Street Improve- ments, Ward 7	\$854 20
Amount paid out of Paving Division	9 00
	<hr/>
	<u>\$863 20</u>
Chauncey street (work done in 1896).	
Labor	\$5 00
Paving	56 00
	<hr/>
	<u>\$61 00</u>
Congress street, Atlantic avenue to the bridge, repaved.	
Labor	\$405 20
Teaming	401 00
Gravel	38 36
	<hr/>
<i>Carried forward,</i>	\$844 56

<i>Brought forward,</i>	\$844 56
Blocks	1,264 56
Edgestone	27 19
Sundries	4 29
Amount paid to John Turner & Co., paving . .	140 59
	<hr/>
	\$2,281 19
	<hr/>

Corning street.

Amount retained from Barber Asphalt Paving Company for work done in 1896, under contract .	\$68 08
	<hr/>

Dix place, from Washington street, repaved.

Labor	\$383 95
Teaming	395 00
Gravel	89 03
Bricks	14 70
Masonry	91 00
Amount paid to J. B. O'Rourke, paving . .	215 41
	<hr/>
	\$1,189 09

Amount paid out of Street Improvements, Ward 7	\$1,126 53
Amount paid out of Paving Division	62 56
	<hr/>

\$1,189 09

Exeter place, asphalted.

Labor	\$28 20
Amount paid to Boston Asphalt Paving Company, asphaltting	1,010 32
	<hr/>
	\$1,038 52
	<hr/>

La Grange street, Tremont street to Police Station No. 4, asphalted.

Labor	\$279 84
Teaming	66 00
Gravel	9 49
Masonry	21 00
Amount paid to Barber Asphalt Paving Company, asphaltting	1,062 48
	<hr/>
	\$1,438 81

Amount paid out of Street Improvements, Ward 7	\$1,429 32
Amount paid out of Paving Division	9 49
	<hr/>

\$1,438 81

Mason street, West street to engine-house, repaved.

Labor	\$108 85
Teaming	167 50
	<hr/>

Carried forward, \$276 35

<i>Brought forward,</i>	\$276 35
Gravel	36 00
Amount paid to T. M. Gill, paving	295 50
	<hr/>
	\$607 85

Ohio street.

Amount retained from Boston Asphalt Paving Company, for work done in 1896, under contract	\$39 56
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Park street, repaired.

Labor	\$257 12
Teaming	309 00
Gravel	84 56
Stone	83 64
	<hr/>
	\$734 32

Amount paid out of Street Improvements, Ward 7	\$566 12
Amount paid out of Paving Division	168 20
	<hr/>

\$734 32**Pine street.**

Amount retained from Barber Asphalt Paving Company, for work done in 1896, under contract	\$85 13
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Wendell street, Broad to Batterymarch street, repaved.

Labor	\$822 64
Teaming	93 00
Gravel	77 00
Edgestone	12 40
Bricks	40 00
Crossing blocks	37 50
	<hr/>
	\$1,082 54

Winthrop square, paved with large granite blocks on a concrete base, with pitch joints, edgestone reset, crossings and sidewalks relaid.

Labor	\$1,305 99
Teaming	1,560 00
Gravel	266 52
Blocks	2,785 97
Edgestone	14 38
Masonry	3 50
Templets	31 76
Lumber	30 05
Amount paid to Metropolitan Construction Company, concrete base	2,916 32
	<hr/>

Carried forward,\$8,914 49

STREET DEPARTMENT — PAVING DIVISION. 109

<i>Brought forward,</i>		\$8,914 49
Amount paid to H. Gore & Co., paving . . .		2,560 72
		<hr/>
		\$11,475 21
Amount paid out of Street Improve- ments, Ward 7	\$11,427 89	
Amount paid out of Paving Division,	47 32	
	<hr/>	<hr/>
		\$11,475 21

STREET IMPROVEMENTS, WARD 8.

Bowdoin street, repaired.

Labor	\$640 87
Teaming	15 00
Gravel	30 00
Stone	42 93
	<hr/>
	\$728 80

Amount paid out of Street Improve- ments, Ward 8	\$640 87
Amount paid out of Paving Division	87 93
	<hr/>
	\$728 80

Chambers street, Barton to Brighton street, repaved.

Labor	\$251 07
Teaming	48 00
Gravel	27 40
Bricks	15 00
Paving	131 74
	<hr/>
	\$473 21

Derne street, at Mt. Vernon street, repaved.

Labor	\$71 00
Teaming	55 50
Stone	21 91
	<hr/>
	\$148 41

Amount paid out of Street Improve- ments, Ward 8	\$71 00
Amount paid out of Paving Division	77 41
	<hr/>
	\$148 41

Eaton street, work unfinished.

Labor	629 52
Flagging	3 27
Blocks	583 45
Sand	6 30
	<hr/>
	\$1,222 54

Amount paid out of Street Improve- ments, Ward 8	\$1,212 97
Amount paid out of Paving Division	9 57
	<hr/>
	\$1,222 54

Fruit street, North Grove to Blossom street, repaved with granite blocks, edgestone reset, brick sidewalks relaid.

Labor	\$1,016 81
Teaming	509 00
Gravel and sand	123 01
Flagging	123 65
Bricks	52 50
Masonry	17 50
Amount paid to D. J. Kiley, paving	361 84

\$2,204 31

Haverhill street, Travers to Causeway street, repaved.

Labor	\$501 14
Teaming	679 50
Gravel	13 03
Amount paid to D. J. Kiley, paving	296 87

\$1,490 54

Amount paid out of Street Improvements, Ward 8 \$1,441 51

Amount paid out of Street Improvements, Ward 6 36 00

Amount paid out of Paving Division 13 03

\$1,490 54

Joy street.

Teaming	\$93 00
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Lowell street.

Teaming	\$27 00
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Mt. Vernon street, Charles to Brimmer street, and in front of State House extension, repaired.

Labor	\$510 42
Teaming	460 00
Gravel	65 87
Stone	4 45
Blocks	29 62
Bricks	4 20

\$1,074 56

Amount paid out of Street Improvements, Ward 8 \$73 00

Amount paid out of Street Improvements, Ward 11 253 00

Amount paid out of Paving Division 748 56

\$1,074 56

North Grove street, Fruit to Cambridge street, paved with large granite blocks, edgestone reset, crossings laid, sidewalks relaid.

Labor	\$1,148 92
Teaming	1,241 00
Gravel	349 02
Edgestone	155 12
Flagging	169 84
Bricks	90 00
Masonry	17 50
Amount paid to D. J. Kiley, paving	600 94

\$3,772 34

Amount paid out of Street Improve- ments, Ward 8	\$3,716 06
Amount paid out of Paving Division	56 28

\$3,772 34

North Russell street, Parkman to Eaton street, repaired.

Labor	\$285 12
Teaming	60 00
Gravel	28 65
Bricks	16 80
Flagging	15 41

\$405 98

Amount paid out of Street Improve- ments, Ward 8	\$345 12
Amount paid out of Paving Division	60 86

\$405 98

Staniford street, Cambridge to Merrimac street, repaved with large granite blocks, edgestone reset, brick sidewalks and crossings relaid.

Labor	\$1,370 54
Teaming	423 00
Gravel	275 00
Blocks	141 44
Bricks	218 90
Flagging	110 36
Masonry	52 50
Amount paid to D. J. Kiley, paving	770 84

\$3,362 58

Amount paid out of Street Improve- ments, Ward 8	\$3,315 28
Amount paid out of Paving Division	47 30

\$3,362 58

STREET IMPROVEMENTS, WARD 9.

Action street, asphalted.

Labor	\$2 50
Amount paid to Boston Asphalt Company, asphaltting	980 10
	<hr/>
	\$982 60

Albion street.

Labor	\$7 75
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Bradford street, asphaltting.

Labor	\$1,024 74
Teaming	485 50
Flagging	30 80
Blocks	2 96
Bricks	48 08
Gravel	12 55
Templets	14 11
Masonry	169 50
Amount paid to Jones & Meehan, asphaltting	3,486 40
	<hr/>
	\$5,274 64

Amount paid out of Street Improvements, Ward 9	\$5,201 72
Amount paid out of Paving Division	72 92
	<hr/>

\$5,274 64**Canton street.**

Paving	\$17 93
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Cobb street, asphalted.

Labor	\$726 52
Teaming	346 00
Cement	4 40
Templets	28 95
Masonry	84 00
Gravel and sand	7 95
Bricks	43 20
Edgestone	5 02
Amount paid to Boston Asphalt Company, asphaltting	2,838 03
	<hr/>

\$4,084 07

Amount paid out of Street Improvements, Ward 9	\$4,076 12
Amount paid out of Paving Division	7 95
	<hr/>

\$4,084 07**Dedham street.**

Paving	\$24 24
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Hamburg street.

Amount retained from Boston Asphalt Company, for work done in 1896, under contract	\$87 96
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Laconia street.

Amount retained from Barber Asphalt Paving Company for work done in 1896, under con- tract	\$103 01
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Mayo street, asphalted.

Labor	\$292 18
Teaming	166 50
Gravel and sand	18 35
Bricks	53 10
Cement	3 20
Masonry	185 50
Amount paid to Boston Asphalt Company, asphalt- ing	1,161 09

\$1,879 92

Amount paid out of street Improve- ments, Ward 9	\$1,861 57
Amount paid out of Paving Division	18 35

\$1,879 92

Meander street.

Paving	\$14 65
Amount retained from Boston Asphalt Company for work done in 1896, under contract	62 58

\$77 23

Mystic street.

Paving	\$17 31
Amount retained from Boston Asphalt Company for work done in 1896, under contract	123 53

\$140 84

Norwich street.

Amount retained from Boston Asphalt Company for work done in 1896, under contract	\$50 91
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Paul street, asphalted.

Labor	\$97 62
Gravel and sand	14 32
Bricks	100 00
Edgestone	26 72
Masonry	131 00
Templets	24 13
Printing	10 50

Carried forward,

\$404 29

<i>Brought forward,</i>	\$404 29
Amount paid to Jones & Meehan, asphaltting .	2,151 65
	<hr/>
Amount paid out of Street Improve- ments, Ward 9	\$2,544 36
Amount paid out of Paving Division .	11 58
	<hr/>
	\$2,555 94

Pelham street, asphalted.

Labor	\$138 89
Teaming	40 50
Gravel	15 41
Flagging	48 04
Bricks	97 20
Edgestone	95 19
Cement	10 50
Templets	23 00
Masonry	129 50
Amount paid to Jones & Meehan, asphaltting .	2,689 65
	<hr/>
	\$3,287 88

Amount paid out of Street Improve- ments, Ward 9	\$3,272 47
Amount paid out of Paving Division .	15 41
	<hr/>
	\$3,287 88

Taylor street.

Amount retained from Boston Asphalt Company for work done in 1896, under contract	\$25 72
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**Upton street, Tremont street to Shawmut avenue macadamized,
edgestone reset, gutters repaved and sidewalks relaid.**

Labor	\$529 99
Teaming	24 00
Sand	10 52
Blocks	538 35
	<hr/>
	\$1,102 86

Amount paid out of Street Improve- ments, Ward 9	\$1,068 34
Amount paid out of Paving Division .	34 52
	<hr/>
	\$1,102 86

**Union Park street, Albany street to Harrison avenue, macadam-
ized, edgestone reset, gutters repaved, brick sidewalks relaid.**

Labor	\$2,460 81
Teaming	1,651 50
Gravel and sand	489 90

Carried forward,

\$4,602 21

STREET DEPARTMENT — PAVING DIVISION. 115

<i>Brought forward,</i>	\$4,602 21
Stone	1,795 15
Steam roller	221 00
Blocks	725 82
Edgestone	47 19
Bricks	15 50
Flagging	160 08
Masonry	276 50
Fuel	25 38
Paving	14 00

\$7,882 83
Waterford street, asphalted.

Labor	\$224 74
Teaming	209 50
Gravel and sand	11 15
Bricks	42 30
Masonry	148 50
Edgestone	287 74
Amount paid to Jones & Meehan, asphaltting .	1,515 70

\$2,439 63

Amount paid out of Street Improve-
ments, Ward 9 \$2,428 48

Amount paid out of Paving Division, 11 15

\$2,439 63

STREET IMPROVEMENTS, WARD 10.

**Boylston street, Tremont street to Park square, and from
Exeter street to the bridge (unfinished work from 1896),
repaired.**

Labor	\$21 50
Teaming	255 00
Gravel	196 46
Stone	428 95
Paving	228 20
Lumber	22 05

\$1,152 16

Amount paid out of Street Improve-
ments, Ward 10 \$744 83

Amount paid out of Paving Division, 407 33

\$1,152 16

**Bryant street, Huntington avenue to Parker street, macad-
amized.**

Labor	\$701 40
Teaming	20 00

Carried forward, \$721 40

<i>Brought forward,</i>	\$721 40
Filling	260 00
Stone	561 73
Steam roller	117 00

\$1,660 13

Amount paid out of Street Improve- ments, Ward 10	\$281 94
Amount paid out of Paving Division	1,378 19

\$1,660 13

Church street, Melrose to Tremont street, repaved with large blocks, edgestone reset, brick sidewalks relaid.

Labor	\$275 50
Teaming	421 00
Gravel and sand	264 24
Bricks	106 12
Blocks	619 62
Flagging	117 43
Masonry	220 50
Amount paid to J. B. O'Rourke, paving	769 31

\$2,793 72

Amount paid out of Street Improve- ments, Ward 10	\$2,721 55
Amount paid out of Paving Division	72 17

\$2,793 72

Cortes street, Berkeley to Ferdinand street, macadamized, edgestone reset, gutters repaved and brick sidewalks relaid.

Labor	\$28 00
Teaming	569 00
Gravel	438 66
Stone	401 04
Bricks	31 50
Amount paid to J. B. O'Rourke, paving	672 89

\$2,141 09

Amount paid out of Street Improve- ments, Ward 10	\$1,806 88
Amount paid out of Paving Division	334 21

\$2,141 09

Dartmouth street.

Teaming	\$33 00
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Dundee street, macadamized, gutters paved, edgestone reset, brick sidewalks relaid.

Labor	\$1,169 60
Teaming	1,264 50

Carried forward, \$2,434 10

STREET DEPARTMENT — PAVING DIVISION. 117

<i>Brought forward,</i>	\$2,434 10
Gravel	231 63
Bricks	303 50
Stone	783 67
Artificial stone sidewalk	64 74
Amount paid to J. B. O'Rourke, paving	648 41

 \$4,466 05

Amount paid out of Street Improve- ments, Ward 10	\$4,454 05
Amount paid out of Paving Division	12 00

 \$4,466 05

Falmouth street, Massachusetts avenue to West Newton street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,409 51
Teaming	2,720 00
Gravel and sand	1,447 80
Stone	2,156 88
Steam roller	202 50
Amount paid to J. B. O'Rourke, paving	259 05

 \$8,195 74

Amount paid out of Street Improve- ments, Ward 10	\$5,064 73
Amount paid out of Paving Division	3,131 01

 \$8,195 74

Fayette street.

Labor	\$10 75
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Ferdinand street, Fayette to Melrose street, repaved with granite blocks.

Teaming	\$226 00
Gravel	151 54
Amount paid to J. B. O'Rourke, paving	346 15

 \$723 69

Isabella street, Ferdinand street to Columbus avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$110 60
Teaming	155 00
Gravel	221 35
Stone	305 98
Steam roller	52 00

Carried forward, \$844 93

<i>Brought forward,</i>	\$844 93
Cement	6 00
Amount paid to J. B. O'Rourke, paving	621 39

\$1,472 32

Amount paid out of Street Improve- ments, Ward 10	\$1,361 99
Amount paid out of Paving Division	110 33

\$1,472 32

Knox street, paved with old blocks taken from Church street.

Labor	\$138 20
Teaming	48 00
Gravel	21 00
Sand	3 32
Masonry	70 00

\$280 52

Amount paid out of Street Improve- ments, Ward 10	\$138 20
Amount paid out of Paving Division	142 32

\$280 52

Massachusetts avenue, Tremont street to railroad bridge,
macadamized, edgestone reset, gutters repaved, brick side-
walks relaid.

Labor	\$2,232 33
Teaming	1,079 50
Gravel and sand	295 43
Stone	1,092 88
Steam roller	104 00
Bricks	26 25
Sundries	8 09
Amount paid to T. M. Gill, paving	1,287 25

\$6,125 73

Amount paid out of Street Improve- ments, Ward 10	\$6,038 10
Amount paid out of Paving Division	87 63

\$6,125 73

Norway street, near corner Falmouth street, resurfaced, edge-
stone reset, gutters repaved, and brick sidewalks relaid.

Labor	\$228 00
Teaming	15 00
Stone	119 63
Gravel	9 59

Carried forward,

\$372 22

<i>Brought forward,</i>	\$372 22
Artificial stone sidewalks	61 98
Paving	168 74

 \$602 94

Amount paid out of Street Improve- ments, Ward 10	\$449 62
Amount paid out of Paving Division	153 32

 \$602 94
St. Botolph street, unfinished from 1896.

Labor	\$28 00
Teaming	26 00
Gravel	19 18
Stone	1,788 91
Paving	6 00

 \$1,868 09
Yarmouth street, unfinished from 1896.

Labor	\$192 95
Teaming	283 00
Gravel	13 70
Sand	28 05
Bricks	5 00
Masonry	35 00

 \$557 70

STREET IMPROVEMENTS, WARD 11.

Arlington street, Boylston to Marlborough street, macadamized.

Labor	\$173 00
Stone	1,573 65
Steam roller	143 00
Gravel	77 56

 \$1,967 21

Amount paid out of Street Improve- ments, Ward 11	\$1,407 30
Amount paid out of Paving Division	559 91

 \$1,967 21
Audubon road, edgestone set.

Circular edgestone	\$243 32
Paving	83 81

 \$327 13

Beacon street, Commonwealth avenue to St. Mary's street, macadamized, edgestone reset, gutters repaved, brick sidewalks and crossings relaid.

Labor	\$5,888 45
Teaming	7,669 50
Gravel and sand	2,110 86
Stone	10,808 36
Steam roller	832 00
Bricks	20 00
Blocks	150 42
Flagging	168 12
Cement	6 60
Amount paid to William Higgins, paving	1,827 46

\$29,481 77

Amount paid out of Street Improvements, Ward 11 \$21,787 64

Amount paid out of Paving Department, 7,694 13

\$29,481 77

Berkeley street.

Bricks	\$34 00
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Boylston street, unfinished from 1896.

Labor	\$130 95
Teaming	772 30
Filling	370 40
Steam roller	13 00
Paving	58 20

\$1,344 85

Amount paid out of Street Improvements, Ward 11 \$1,324 85

Amount paid out of Paving Division 20 00

\$1,344 85

Exeter street, unfinished from 1896.

Labor	\$39 00
Teaming	80 00
Filling	237 60
Paving	30 84
Lumber	5 79

\$393 23

Massachusetts avenue, Huntington avenue to railroad bridge, resurfaced.

Labor	\$94 75
Gravel	181 57
Loam and sods	360 60

\$636 92

Newbury street.

Teaming	\$448 50
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Pinckney street, resurfaced.

Labor	\$624 05
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Teaming	105 50
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\$729 55

Amount paid out of Street Improve-
ments, Ward 11

\$111 80

Amount paid out of Paving Division

617 75

\$729 55

STREET IMPROVEMENTS, WARD 12.

Camden street, Washington to Northfield street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,665 91
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Teaming	415 00
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Gravel and sand	115 70
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Stone	330 02
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Bricks	74 70
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Blocks	222 00
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Edgestone	6 70
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Masonry	84 00
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Amount paid to Jones & Meehan, paving	315 05
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\$3,229 08

Concord square, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$387 04
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Teaming	767 00
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Gravel and sand	186 70
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Stone	747 67
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Steam roller	186 50
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Bricks	92 70
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Masonry	161 00
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Amount paid to J. B. O'Rourke, paving	773 99
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\$3,302 60

Amount paid out of Street Improve-
ments, Ward 12

\$3,140 34

Amount paid out of Paving Division

162 26

\$3,302 60

East Brookline street (unfinished from 1896).

Paving	\$161 65
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East Lenox street, Washington to Fellows street, macadamized, edgestone set, brick sidewalks and crossings laid.

Labor	\$1,835 41
Teaming	1,185 17
Gravel and sand	148 02
Stone	1,095 32
Bricks	44 10
Cement	4 25
Flagging	97 55
Masonry	266 00

\$4,675 82

Amount paid out of Street Improvements, Ward 12 \$4,518 63

Amount paid out of Street Improvements, Ward 17 121 60

Amount paid out of Paving Division 35 59

\$4,675 82

Fellows street.

Labor	\$92 00
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Greenwich Park, macadamized.

Labor	\$621 55
Teaming	544 75
Gravel and sand	104 20
Stone	589 62
Steam roller	79 50
Bricks	66 83
Masonry	63 00

\$2,069 45

Amount paid out of Street Improvements, Ward 12 \$1,871 19

Amount paid out of Paving Division 198 26

\$2,069 45

Massachusetts avenue, Swett street to railroad bridge, macadamized; and between Columbus avenue and Tremont street, asphalted.

Labor	\$358 55
Teaming	362 50
Gravel	213 45
Stone	508 95
Plumbing	13 79
Templets	29 53
Steam roller	225 00

Amount paid to Boston Paving Company, paving with asphaltina 3,851 34

Carried forward,

\$5,563 11

<i>Brought forward,</i>	\$5,563 11
Amount paid out of Street Improve- ments, Ward 12	\$5,533 86
Amount paid out of Paving Division	29 25
	<hr/>
	\$5,563 11

Newland street, Canton to Fabin street, macadamized.

Labor	\$187 60
Teaming	66 00
Gravel	26 05
Bricks	15 52
	<hr/>
	\$295 17

Amount paid out of Street Improve- ments, Ward 12	\$247 15
Amount paid out of Paving Division	48 02
	<hr/>
	\$295 17

Reed street, unfinished from 1896.

Screenings	\$351 00
Artificial stone sidewalk	30 66
Teaming	16 00
	<hr/>
	\$397 66

Reed street, East Lenox to Northampton street, macadamized.

Labor	\$437 65
Teaming	500 00
Gravel	61 70
Stone	178 89
Paving	37 53
	<hr/>
	\$1,215 77

Amount paid out of Street Improve- ments, Ward 12	\$1,070 65
Amount paid out of Street Improve- ments, Ward 17	36 45
Amount paid out of Paving Division	108 67
	<hr/>
	\$1,215 77

Sharon street, macadamized, edgestone reset, gutters repaved, crossings and brick sidewalks relaid.

Labor	\$1,905 67
Teaming	992 00
Gravel	217 37
Stone	1,323 75
Steam roller	338 00
Blocks	533 25
	<hr/>

Carried forward, \$5,310 04

<i>Brought forward,</i>	\$5,310 04
Bricks	273 00
Edgestone	25 43
Flagging	72 76
Masonry	152 00

\$5,833 23

West Newton street, Columbus avenue to railroad bridge, macadamized, edgestone reset, brick sidewalks relaid, gutters repaved.

Labor	\$225 54
Teaming	500 50
Gravel and sand	469 44
Stone	564 29
Bricks	81 50
Amount paid to J. B. O'Rourke, paving	457 91

\$2,299 18

Amount paid out of Street Improvements, Ward 12 \$1,649 75

Amount paid out of street improvements, Ward 10 637 48

Amount paid out of Paving Division 11 95

\$2,299 18

STREET IMPROVEMENTS, WARD 13.

B street, repaired.

Labor	<u>\$133 40</u>
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Baxter street, between C and E streets, macadamized, edgestone reset, gutters repaved and brick sidewalks relaid.

Labor	\$329 98
Teaming	279 00
Gravel	49 06
Bricks	120 00
Stone	407 76
Steam roller	96 67
Amount paid to Glenn & Barrett, paving	882 42

\$2,164 89

Broadway, E street to railroad bridge, paved with large granite blocks; 4-foot asphalt gutters, edgestones reset, brick sidewalks relaid.

Labor	\$5,288 45
Teaming	3,994 50

Carried forward,

\$9,282 95

STREET DEPARTMENT — PAVING DIVISION. 125

<i>Brought forward,</i>	\$9,282 95
Gravel and sand	1,825 15
Bricks	745 00
Blocks	8,374 88
Wharfage	352 30
Flagging	337 35
Cement	4 40
Oil	4 86
Amount paid to H. Gore & Co., asphalt-	
ing	\$4,895 45
Paving	2,952 11
	<hr/>
	7,847 56
	<hr/>
	<u>\$28,774 45</u>

D street.

Labor	<u>\$122 80</u>
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Dorchester avenue (unfinished work from 1896).

Labor	\$207 71
Teaming	112 00
Blocks	360 10
Bricks	63 00
Gravel	80 84
Flagging	105 84
Paving	73 66
	<hr/>
	<u>\$1,003 15</u>

First street.

Gravel	<u>\$64 11</u>
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Work done by the Bridge Division	<u>\$2,240 63</u>
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Work done by the Sewer Division	<u>\$445 34</u>
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STREET IMPROVEMENTS, WARD 14.

Beckler avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$16 10
Teaming	30 00
Stone	132 56
Bricks	56 00
Steam roller	34 00
Amount paid to Glenn & Barrett, paving	199 35
	<hr/>
	<u>\$468 01</u>

Broadway, L to Q street, macadamized, gutters repaved, edge-stone reset, brick sidewalks relaid.

Labor	\$3,734 70
Teaming	1,893 00
Gravel and sand	900 47
Blocks	1,367 07
Bricks	610 00
Stone	2,560 60
Steam roller	37 00
Amount paid to H. Gore & Co., paving	697 20
Amount paid to Glenn & Barrett, paving	1,080 78

\$12,880 82

Broadway, in front of the Lincoln School, asphalted.

Templets	\$22 73
Amount paid to Boston Asphalt Company, asphaltting,	2,857 98

\$2,880 71

East Second street.

Teaming	\$158 00
Bricks	50 00

\$208 00

East Seventh street, L to N street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$253 53
Teaming	212 00
Gravel	83 63
Amount paid to Glenn & Barrett, paving	252 00
Amount paid to R. McDonough, paving	394 77

\$1,195 93

F street.

Labor	\$7 63
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Fifth street, H to I street, resurfaced.

Labor	\$189 03
Teaming	98 00
Stone	293 87

\$580 90

First street, I to L street, macadamized.

Labor	\$611 30
Teaming	391 50
Gravel	139 92
Stone	867 96

\$2,010 68

Fourth street, I to K street (work unfinished).

Labor	\$221 49
Teaming	31 00

 \$252 49
I street.

Labor	\$9 50
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Jay street, Fourth to Fifth street, edgestone set.

Labor	\$502 59
Edgestone	72 29

 \$574 88
K street, Broadway to Fourth street, paved with old granite blocks, edgestone reset, brick sidewalks relaid.

Labor	\$480 06
Teaming	190 50
Gravel	164 46
Blocks	567 00
Bricks	52 50
Amount paid to H. Gore & Co., paving	324 54

 \$1,779 06
L street, Broadway to First street, macadamized.

Labor	\$591 39
Teaming	244 50
Gravel	161 12
Stone	592 20

 \$1,589 21
L street, Seventh to Eighth street (unfinished work from 1896).

Teaming	\$184 00
Stone	177 29

 \$361 29
M street, Broadway to East Second street, resurfaced one side, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$171 95
Teaming	77 50
Gravel	56 31
Bricks	50 00
Stone	362 09
Steam roller	74 00
Amount paid to Glenn & Barrett, paving	279 49

 \$1,071 34

N street, Broadway to East Second street (one side), edgestone reset, gutters repaved, brick sidewalks relaid.

Teaming	\$115 00
Bricks	90 00
Paving	292 99
	<hr/>
	\$497 99

Ninth street, K to M street, macadamized.

Labor	\$483 45
Teaming	231 50
Gravel	173 38
Stone	868 73
	<hr/>
	\$1,757 06

O street, First to Third street, macadamized.

Labor	\$813 58
Teaming	449 00
Stone	809 64
Paving	78 36
	<hr/>
	\$2,150 58

Third street, L to M street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$378 94
Teaming	366 00
Gravel	138 27
Stone	541 69
Bricks	50 00
Amount paid to R. McDonough, paving	658 97
	<hr/>
	\$2,133 87

Work done by the Sewer Division \$247 87

STREET IMPROVEMENTS, WARD 15.

Broadway, E to Dorchester street, asphalted, edgestone reset, brick sidewalks relaid.

Teaming	\$59 50
Blocks	238 69
Gravel	271 60
Advertising	18 95
Amount paid to Boston Asphalt Company, asphaltting	5,163 34

\$5,752 08

Amount paid out of Street Improve-
ments, Ward 15 \$5,480 48

Amount paid out of Street Improve-
ments, Ward 14 271 60

\$5,752 08



COVINGTON STREET, SOUTH BOSTON, ARTIFICIAL STONE STEPS, PLATFORM AND WALLS.

Covington street, stone and artificial stone retaining-walls and fences built.

Labor	\$778 81
Advertising	32 00
Amount paid to T. F. Broderick, building retaining-walls and fences	1,062 35
Amount paid to W. A. Murtfeldt Company, building artificial stone retaining-walls	3,172 25
	<hr/>
	\$5,045 41

East Fifth street.

Labor	\$29 35
Gravel	37 50
	<hr/>
	\$66 85

G street.

Stone	\$90 55
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Gates street, Dorchester to Eighth street, macadamized, gutters repaved, edgestone reset, brick sidewalks relaid.

Labor	\$1,170 31
Teaming	445 00
Stone	505 03
Bricks	130 00
Cement	4 40
Amount paid to W. H. Glenn, paving	1,025 22
	<hr/>
	\$3,279 96

H street, Fourth to Fifth street, macadamized.

Labor	\$98 98
Teaming	132 50
Stone	200 06
	<hr/>
	\$431 54

K street.

Amount retained from Boston Asphalt Company, for work done in 1896, under contract	\$162 40
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Mercer street, Dorchester to Eighth street, macadamized, edgestone reset, gutters repaved and brick sidewalks relaid.

Labor	\$504 16
Teaming	312 50
Gravel	117 51
Bricks	200 00
Steam roller	106 00
Cement	8 80
Amount paid to Glenn & Barrett, paving	824 75
	<hr/>
	\$2,073 72

Middle street, Dorchester avenue to Dorchester street, macadamized.

Labor	\$352 30
Teaming	16 00
Paving	41 54
	<hr/>
	<u>\$409 84</u>

Mitchell street, macadamizing, edgestone reset, gutters repaved, brick sidewalks repaired.

Labor	\$117 73
Teaming	165 00
Stone	64 56
Gravel	84 74
Bricks	10 00
Amount paid to R. McDonough	233 07
	<hr/>
	<u>\$675 10</u>

Newman street, Dorchester to Mercer street, macadamized.

Labor	\$684 85
Teaming	101 00
Stone	379 17
Steam roller	106 00
	<hr/>
	\$1,271 02

Amount paid out of Street Improvements, Ward 15 \$955 76

Amount paid out of Street Improvements, Ward 16 315 26

\$1,271 02

Ninth street, Vale to K street, macadamized.

Labor	\$1,927 06
Teaming	362 50
Gravel	760 45
Stone	3,733 16
Steam roller	488 44
Paving	185 91
	<hr/>
	<u>\$7,457 52</u>

Old Harbor street.

Gravel	<u>\$56 00</u>
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Telegraph street.

Gravel	<u>\$105 50</u>
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Thomas park, Covington to National street, macadamized.

Labor	\$567 42
Teaming	369 50
	<hr/>

Carried forward,

\$936 92

STREET DEPARTMENT — PAVING DIVISION. 131

<i>Brought forward,</i>	\$936 92
Gravel	121 51
Stone	954 74
	<hr/>
	\$2,013 17
	<hr/>

Vale street, Mercer to Burnham street, macadamized.

Labor	\$135 43
Teaming	7 50
Gravel	82 51
Stone	50 59
Lumber	59 40
	<hr/>
	\$335 43

Amount paid out of Street Improve- ments, Ward 15	\$284 73
Amount paid out of Street Improve- ments, Ward 16	50 70
	<hr/>
	\$335 43
	<hr/>
Work done by the Sewer Division	\$147 13
	<hr/>

STREET IMPROVEMENTS, WARD 16.

Alexander street, Oleander street to Hooper avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$592 81
Teaming	414 00
Stone	1,032 89
Steam roller	156 00
Gravel	290 63
Amount paid to James Dolan, paving	344 44
	<hr/>
	\$2,830 77
	<hr/>

Andrew square, repaved with large granite blocks, edgestone reset, new crossings laid.

Labor	\$329 47
Teaming	287 00
Gravel	138 27
Flagging	643 22
Amount paid to J. B. O'Rourke	1,031 45
	<hr/>
	\$2,429 41

Amount paid out of Street Improve- ments, Ward 16	\$2,107 80
Amount paid out of Street Improve- ments, Ward 15	321 61
	<hr/>
	\$2,429 41
	<hr/>

Blue Hill avenue.

Labor	\$24 60
Teaming	285 50
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	\$310 10

Boston street, Mt. Vernon street to Edward Everett square, macadamized.

Labor	\$279 34
Teaming	63 00
Gravel	38 61
Stone	1,353 25
Steam roller	282 00
	<hr/>
	\$2,016 20

Amount paid out of Street Improve-
ments, Ward 16 \$1,916 95

Amount paid out of Street Improve-
ments, Ward 20 84 00

Amount paid out of Paving Division, 15 25

\$2,016 20

Brookford street, macadamized.

Labor	\$202 22
Teaming	317 00
Stone	150 01
Gravel	10 00
	<hr/>
	\$679 23

Amount paid out of Street Improve-
ments, Ward 16 \$574 16

Amount paid out of Paving Division . 105 07

\$679 23

Burnham street, Dunham to Mercer street, resurfaced.

Labor	\$426 32
Teaming	242 50
Gravel	49 06
Stone	431 56
	<hr/>
	\$1,149 44

Buttonwood street, Parkway to Crescent avenue, macadamized.

Labor	\$387 00
Teaming	118 00
Gravel	71 50
Stone	866 48
Steam roller	156 00
	<hr/>

Carried forward,

\$1,598 98

STREET DEPARTMENT — PAVING DIVISION. 133

<i>Brought forward,</i>	\$1,598 98
Amount paid out of Street Improvements, Ward 16	\$1,469 98
Amount paid out of Paving Division	129 00
	<hr/>
	\$1,598 98
Clapp street.	
Gravel	\$31 46
Stone	100 05
	<hr/>
	\$131 51
Dacia street.	
Stone	\$95 69
Labor	70 50
	<hr/>
	\$166 19
Amount paid out of Street Improvements, Ward 16	\$70 50
Amount paid out of Paving Division	95 69
	<hr/>
	\$166 19
Dean street.	
Paving	\$13 59
Dorchester avenue, repaired.	
Labor	\$92 36
Teaming	252 00
Stone	75 24
	<hr/>
	\$419 60
Amount paid out of Street Improvements, Ward 16	\$344 36
Amount paid out of Paving Division	75 24
	<hr/>
	\$419 60
Dove street.	
Teaming	\$138 00
Stone	375 43
	<hr/>
	\$513 43
Folsom street, macadamized.	
Labor	\$338 14
Teaming	623 00
Stone	754 87
Steam roller	170 44
	<hr/>
	\$1,886 45
Humphreys street.	
Teaming	\$235 00
Stone	316 67
	<hr/>
	\$551 67

Ingleside street.

Labor	\$87 60
Stone	75 00

 \$162 60

Amount paid out of Street Improve- ments, Ward 16	\$63 60
Amount paid out of Paving Division	99 00

 \$162 60

Judson street.

Labor	\$272 40
Teaming	351 00
Steam roller	312 00

 \$935 40

Amount paid out of Street Improve- ments, Ward 16	\$623 40
Amount paid out of Paving Division	312 00

 \$935 40

Julian street, resurfaced.

Labor	\$515 95
Teaming	12 00
Stone	120 00

 \$647 95

Amount paid out of Street Improve- ments, Ward 16	\$527 95
Amount paid out of Street Improve- ments, Ward 17	120 00

 \$647 95

Leyland street, resurfaced.

Labor	\$36 00
Teaming	6 00
Gravel	10 01
Steam roller	100 00

 \$152 01

Locust street

Teaming	\$100 00
Stone	206 28

 \$306 28

Magnolia street, Quincy to Dudley street, macadamized.

Labor	\$87 32
Teaming	5 00

Carried forward,

 \$92 32

STREET DEPARTMENT — PAVING DIVISION. 135

<i>Brought forward,</i>	\$92 32
Gravel	11 44
Stone	1,644 02
Steam roller	618 00
Blocks	38 51
	<hr/>
	\$2,404 29
Amount paid out of Street Improve- ments, Ward 16	\$2,365 78
Amount paid out of Paving Division	38 51
	<hr/>
	<u>\$2,404 29</u>

Massachusetts avenue, Edward Everett square to railroad bridge, macadamized.

Labor	\$60 90
Teaming	268 00
Gravel	143 00
Stone	572 15
	<hr/>
	<u>\$1,044 05</u>

Monadnock street, macadamized.

Labor	\$245 25
Teaming	19 50
Gravel	33 00
Stone	679 26
Steam roller	63 00
	<hr/>
	<u>\$1,040 01</u>

Mt. Vernon street, Dorchester avenue to Boston street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$57 86
Teaming	204 50
Gravel and sand	188 63
Stone	11 24
Bricks	575 00
Amount paid to R. McDonough, paving	244 08
	<hr/>
	\$1,281 31

Amount paid out of Street Improve- ments, Ward 16	\$1,270 07
Amount paid out of Paving Division	11 24
	<hr/>

\$1,281 31**Virginia street.**

Gravel	\$70 00
Stone	209 90
	<hr/>
	<u>\$279 90</u>

Willow court, repaired.

Labor	\$160 20
Teaming	50 00
Stone	446 41

 \$656 61

Amount paid out of Street Improve- ments, Ward 16	\$597 11
Amount paid out of Paving Division	59 50

 \$656 61
Woodward Park street, repaired.

Labor	\$282 40
Stone	32 69

 \$315 09

Amount paid out of Street Improve- ments, Ward 16	\$314 72
Amount paid out of Paving Division	37

 \$315 09

Work done by the Sewer Division	\$382 66
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STREET IMPROVEMENTS, WARD 17.**Cottage street, Blue Hill avenue to railroad, macadamized.**

Labor	\$715 10
Teaming	913 00
Gravel	150 00
Stone	1,180 21
Steam roller	273 00

 \$3,231 31

Amount paid out of Street Improve- ments, Ward 17	\$1,543 51
Amount paid out of Street Improve- ments, Ward 16	1,554 34
Amount paid out of Paving Division	133 46

 \$3,231 31
Fellows street.

Gravel	\$5 00
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Howard avenue, macadamized.

Labor	\$46 00
Teaming	47 00
Stone	1,625 69
Steam roller	156 00
Paving	4 81

Carried forward,

 \$1,879 50

<i>Brought forward,</i>		\$1,879 50
Amount paid out of Street Improve- ments, Ward 17	\$537 37	
Amount paid out of Paving Division	1,342 13	

\$1,879 50
Hudson street, macadamized.

Teaming		\$327 00
Gravel		17 50
Stone		463 98

\$808 48
Hunneman street, gravelled.

Labor		\$334 85
Gravel		66 40

\$401 25

Amount paid out of Street Improve- ments, Ward 17	\$5 00	
Amount paid out of Paving Division	396 25	

\$401 25
**Magazine street, Dudley to George street, macadamized, edge-
stone reset, gutters repaved, brick sidewalks relaid.**

Labor		\$1,579 00
Teaming		1,119 00
Gravel		280 95
Bricks		73 50
Stone		900 92
Steam roller		104 00
Amount paid to John McCourt, paving		462 69

\$4,520 06
**Mall street, macadamized, edgestone reset, gutters repaved,
brick sidewalks relaid.**

Teaming		\$191 00
Gravel		124 90
Stone		483 62
Bricks		50 00
Amount paid to Doherty & Connors		482 05

\$1,331 57

Amount paid out of Street Improve- ments, Ward 17	\$723 05	
Amount paid out of Paving Division	608 52	

\$1,331 57
Marshfield street, repaired.

Labor		\$116 00
Teaming		40 00

\$156 00

Mt. Pleasant avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,558 80
Teaming	1,805 00
Stone	1,509 87
Bricks	262 50
Gravel	444 65
Steam roller	156 00
Amount paid to John McCourt, paving	1,636 22

 \$7,373 04

 Amount paid out of Street Improve-
ments, Ward 17

\$7,166 71

Amount paid out of Paving Division

206 33

 \$7,373 04
Pontine street, macadamized.

Teaming	\$166 00
Gravel	43 50
Stone	71 40

 \$280 90

 Amount paid out of Street Improve-
ments, Ward 17

\$271 84

Amount paid out of Paving Division

9 06

 \$280 90
Shirley street, Norfolk avenue to George street, macadamized, edgestone set.

Labor	\$2,637 00
Teaming	2,058 49
Gravel	111 85
Stone	558 74

 \$5,366 08

 Amount paid out of Street Improve-
ments, Ward 17

\$4,188 14

Amount paid out of Paving Division

1,177 94

 \$5,366 08
Washington street.

Teaming	\$69 00
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Winslow street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$194 70
Teaming	13 00
Gravel	113 75
Stone	921 30
Amount paid to John McCourt, paving	438 29

Carried forward,

 \$1,681 04

<i>Brought forward,</i>	\$1,681 04
Amount paid out of Street Improvements, Ward 17	\$639 24
Amount paid out of Paving Division	1,041 80
	<hr/>
	\$1,681 04

Zeigler street, Washington to Dearborn street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$242 45
Teaming	1,091 00
Gravel	461 00
Stone	1,225 46
Bricks	262 00
Advertising	13 80
Amount paid to Barnes, Ruffin Company, paving	1,218 90
	<hr/>
	\$4,514 61

Amount paid out of Street Improvements, Ward 17.	\$4,088 55
Amount paid out of Paving Division	426 06
	<hr/>
	\$4,514 61

STREET IMPROVEMENTS, WARD 18.

Ball street, Washington street to Shawmut avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,093 29
Teaming	528 50
Gravel	133 45
Stone	318 83
Steam roller	65 00
Bricks	68 25
Amount paid to John McCourt, paving	294 00
	<hr/>
	\$2,501 32

Amount paid out of Street Improvements, Ward 18	\$2,379 16
Amount paid out of Street Improvements, Ward 19	12 50
Amount paid out of Paving Division	109 66
	<hr/>

\$2,501 32

Culvert street.

Paving	\$227 76
Stone	84 60
Artificial stone sidewalk	5 28
	<hr/>
	\$317 64

Cunard street, Tremont street to Columbus avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$766 15
Teaming	956 00
Gravel	108 75
Steam roller	112 78
Paving	126 31

\$2,069 99

Amount paid out of Street Improvements, Ward 18 \$1,925 96

Amount paid out of Paving Division 144 03

\$2,069 99

Dudley street, at Eliot square, macadamized.

Labor	\$346 45
Teaming	358 50
Gravel	41 00
Stone	727 78

\$1,473 73

Greenwich street.

Teaming	\$8 50
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Linden Park street, unfinished work from 1896.

Stone	\$1,165 84
Steam roller	20 00

\$1,185 84

Roxbury street, unfinished work from 1896.

Stone	\$473 45
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Ruggles street, Tremont street to the railroad, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$2,081 27
Teaming	111 00
Gravel	26 25
Stone	341 51
Bricks	157 50
Blocks	594 92
Amount paid to A. Ford & Son, paving	654 35

\$3,966 80

Amount paid out of Street Improvements, Ward 18 \$2,787 21

Amount paid out of Street Improvements, Ward 19 1,106 40

Amount paid out of Paving Division 73 19

\$3,966 80

Sarsfield street, Tremont to Grinnell street, resurfaced, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$741 62
Teaming	758 00
Gravel	187 65
Bricks	115 51
Amount paid to Barnes, Ruffin Company, paving .	246 76

\$2,049 54

Amount paid out of Street Improvements, Ward 18 \$2,022 94

Amount paid out of Paving Division 26 60

\$2,049 54

Walpole street, Columbus avenue to Tremont street, resurfaced, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$295 60
Teaming	500 00
Gravel	75 50
Stone	24 96
Bricks	52 50
Steam roller	117 00
Amount paid to A. Ford & Son, paving	174 16

\$1,239 72

Amount paid out of Street Improvements, Ward 18 \$1,200 72

Amount paid out of Paving Division 39 00

\$1,239 72

Washington street.

Gravel	\$97 20
Blocks	16 50
Sand	32 40

\$146 10

Westminster street, resurfaced.

Labor	\$206 64
Stone	194 12
Paving	169 40

\$570 16

Amount paid out of Street Improvements, Ward 18 \$376 04

Amount paid out of Paving Division 194 12

\$570 16

Weston street, Tremont street to Columbus avenue, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$435 75
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Carried forward,

\$435 75

<i>Brought forward,</i>	\$435 75
Teaming	414 00
Gravel	95 00
Bricks	52 50
Amount paid to A. Ford & Son, paving . . .	247 54

\$1,244 79

Williams street, Washington street to Shawmut avenue, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$997 15
Teaming	1,376 50
Gravel and sand	368 15
Stone	888 19
Bricks	157 50
Steam roller	312 00
Amount paid to John McCourt, paving . . .	815 54

\$4,915 03

Amount paid out of Street Improvements, Ward 18 \$4,337 91

Amount paid out of Paving Division 577 12

\$4,915 03

Work done by the Sewer Division **\$268 55**

STREET IMPROVEMENTS, WARD 19.

Autumn street.

Labor	\$55 95
Teaming	136 50

\$192 45

Bellevue street, macadamized.

Labor	\$80 75
Teaming	882 00
Stone	424 72

\$1,387 47

Bromley street, resurfaced.

Labor	\$97 00
Teaming	89 00
Stone	274 07
Steam roller	156 00
Blocks	8 25
Paving	152 86

Carried forward, **\$777 18**

STREET DEPARTMENT — PAVING DIVISION. 143

<i>Brought forward,</i>	\$777 18
Amount paid out of Street Improve- ments, Ward 19	\$490 04
Amount paid out of Street Improve- ments, Ward 21	89 00
Amount paid out of Street Improve- ments, Ward 22	152 86
Amount paid out of Paving Division	45 28
	<hr/>
	\$777 18

Brookline avenue.

Teaming	\$83 50
Stone	75 12
	<hr/>
	\$158 62

Centre street, at Marcella street, repaired, stone wall and iron fence built.

Labor	\$771 00
Teaming	785 00
Gravel	25 00
Stone	272 70
Cement	79 45
White lead	7 73
Flagging	102 27
Stone wall	150 00
Iron fence	165 00
	<hr/>
	\$2,358 15

Amount paid out of Street Improve- ments, Ward 19	\$2,345 65
Amount paid out of Paving Division	12 50
	<hr/>
	\$2,358 15

Conant street, Parker to Phillips street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$954 08
Teaming	451 05
Gravel	442 10
Stone	164 74
Flagging	56 11
Amount paid to Thomas O'Leary, paving	287 22
	<hr/>
	\$2,355 30

Amount paid out of Street Improve- ments, Ward 19	\$2,351 54
Amount paid out of Paving Division	3 76
	<hr/>
	\$2,355 30

Elmwood street.

Teaming	\$43 50
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Faxon street.

Sand	\$2 60
Gravel	13 75

\$16 35
Greenwich street.

Gravel	\$6 25
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Heath place, resurfaced.

Labor	\$348 23
Teaming	54 00
Gravel	212 00
Stone	40 89
Flagging	107 63
Paving	14 46

\$777 21
Highland street.

Teaming	\$15 00
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Huntington avenue.

Teaming	\$330 00
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King street.

Labor	\$238 20
Teaming	98 00
Gravel	13 75

\$349 95

Amount paid out of Street Improve-	
ments, Ward 19	\$343 70
Amount paid out of Paving Division	6 25

\$349 95
Lawn street.

Stone	\$126 97
Teaming	168 00

\$294 97
Linwood street.

Teaming	\$103 00
Gravel	7 50

\$110 50

**Longwood avenue, Huntington avenue to Brookline avenue,
macadamized, edgestone reset, gutters repaved, brick sidewalks
relaid.**

Labor	\$4,383 64
Teaming	3,054 00

Carried forward,

\$7,437 64

STREET DEPARTMENT — PAVING DIVISION. 145

<i>Brought forward,</i>	\$7,437 64
Gravel and sand	464 77
Bricks	55 00
Stone	2,384 05
Steam roller	663 00
Flagging	63 00
Fuel	84 60
Amount paid to William Higgins, paving . . .	955 91
	<hr/>
	\$12,107 97

Marcella street.

Teaming	\$113 00
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Minden street, macadamized.

Labor	\$947 87
Teaming	1,035 00
Gravel	15 00
Stone	712 73
Steam roller	208 00
Flagging	29 68
	<hr/>
	\$2,948 28

Amount paid out of Street Improve-
ments, Ward 19 \$1,585 41

Amount paid out of Street Improve-
ments, Ward 22 1,331 37

Amount paid out of Paving Division 31 50

\$2,948 28

Parker street.

Labor	\$4 00
Teaming	21 00
Sand	10 00
Gravel	4 05
Stone	42 41
	<hr/>
	\$81 46

Smith street (unfinished work from 1896).

Stone	\$668 54
-----------------	----------

Station street, Columbus avenue to Parker street, resurfaced, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$1,133 65
Gravel and sand	61 00
Stone	6 44
Flagging	30 24
Amount paid to Barnes, Ruffin Company paving . .	692 53

\$1,923 86

Wait street, repaired.

Labor	\$72 60
Filling	173 23

\$245 83
Walden street.

Teaming	\$27 00
Gravel	10 00

\$37 00

Amount paid out of Street Improve- ments, Ward 19	\$27 00
Amount paid out of Paving Division	10 00

\$37 00
Wigglesworth street, (unfinished work from 1896).

Labor	\$20 00
Teaming	20 00
Steam roller	91 00

\$131 00

Work done by the Sewer Division	<u>\$829 54</u>
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STREET IMPROVEMENTS, WARD 20.

Auckland street, macadamized.

Labor	\$80 60
Teaming	264 50
Stone	795 92
Steam roller	52 00
Paving	30 69

\$1,223 71
Barrington street, edgestone set, gutters paved.

Paving	\$73 26
Gravel	42 90
Teaming	6 00

\$122 16
Blue Hill and Lawrence avenues, repaired.

Stone	\$89 59
Teaming	77 00
Gravel	30 03

\$196 62

Bradlee street, resurfaced.

Labor	\$39 00
Teaming	217 00
Stone	313 33
Paving	5 90
	<hr/>
	\$575 23

Charles street, macadamized.

Labor	\$326 20
Teaming	543 50
Gravel	50 05
Stone	721 63
Paving	16 79
	<hr/>
	\$1,658 17

Cushing avenue, repaired.

Labor	\$61 80
Teaming	171 50
Stone	64 97
Paving	30 41
	<hr/>
	\$328 68

Dorchester avenue, repaired.

Stone	\$499 96
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Grampianway.

Labor	\$75 20
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Greenwich street, macadamized, gutters paved.

Labor	\$687 09
Teaming	626 50
Gravel	286 00
Stone	1,173 85
Steam roller	78 00
Amount paid to James Dolan, paving	235 35

\$3,086 79

Amount paid out of Street Improve-
ments, Ward 20 \$2,937 99

Amount paid out of Street Improve-
ments, Ward 24 148 80

\$3,086 79
Hancock street.

Labor	\$135 60
Stone	70 17
Paving	12 68
	<hr/>
	\$218 45

Harvard street, Blue Hill avenue to School street, macadamized.

Labor	\$229 00
Teaming	1,305 50
Stone	2,058 10
Artificial stone sidewalks	45 24
	<hr/>
	\$3,637 84

Amount paid out of Street Improvements, Ward 20 \$3,352 43

Amount paid out of Street Improvements, Ward 24 285 41

\$3,637 84

Lyons street, macadamized.

Labor	\$254 57
Teaming	164 50
Stone	422 30
	<hr/>
	\$841 37

Mayfield street, Dorchester avenue to Pleasant street, macadamized.

Labor	\$12 00
Teaming	85 00
Gravel	30 03
Stone	289 43
	<hr/>
	\$416 46

Northern avenue.

Edgestone	\$18 85
	<hr/>

Park square, repaired.

Labor	\$127 50
Teaming	76 00
Stone	14 40
Paving	58 70
	<hr/>
	\$276 60

Pleasant street, Savin Hill avenue to Stoughton street, macadamized.

Labor	\$24 00
Teaming	63 00
Stone	205 98
	<hr/>
	\$292 98

Quincy street, Bowdoin street to New England Railroad, macadamized.

Labor	\$539 50
Teaming	283 77
	<hr/>

Carried forward,

\$823 27

STREET DEPARTMENT—PAVING DIVISION. 149

<i>Brought forward,</i>	\$823 27
Gravel	202 78
Stone	1,688 60
Steam roller	476 00
Edgestone	14 30
Paving	136 25
	<hr/>
	\$3,341 20

Amount paid out of Street Improvements,	
Ward 20	\$3,023 75
Amount paid out of Street Improvements,	
Ward 16	220 50
Amount paid out of Street Improvements,	
Ward 21	25 45
Amount paid out of Street Improvements,	
Ward 24	71 50

\$3,341 20

Savin Hill avenue, Dorchester avenue to Grampianway, macadamized.

Labor	\$423 77
Teaming	130 00
Gravel	163 02
Stone	696 34
Steam roller	384 00
	<hr/>
	\$1,797 13

Amount paid out of Street Improvements,	
Ward 20	\$1,616 99
Amount paid out of Paving Division	180 14

\$1,797 13

Shamrock street, macadamized.

Labor	\$358 10
Teaming	387 00
Gravel	143 00
Stone	451 77
Steam roller	78 00
Paving	155 37
	<hr/>

\$1,573 24

Topliff street, Westville to Longfellow street, macadamized.

Labor	\$40 00
Teaming	210 00
Stone	57 20
	<hr/>

\$307 20

Washington street, Bowdoin to Centre street, macadamized.

Labor	.	.	.	.	.	.	.	\$343 59
Teaming	.	.	.	.	.	.	.	692 50
Stone	.	.	.	.	.	.	.	666 83
Paving	.	.	.	.	.	.	.	25 23

 \$1,728 15

Amount paid out of Street Improvements,

Ward 20 \$978 21

Amount paid out of Street Improvements,

Ward 24 503 40

Amount paid out of Paving Division . 246 54

 \$1,728 15
Westville street, repaired.

Labor	.	.	.	.	.	.	.	\$123 50
Teaming	.	.	.	.	.	.	.	75 00

 \$198 50

STREET IMPROVEMENTS, WARD 21.

Bainbridge street, repaired.

Labor	.	.	.	.	.	.	.	\$70 00
Teaming	.	.	.	.	.	.	.	257 00
Gravel	.	.	.	.	.	.	.	20 00

 \$347 00

Amount paid out of Street Improvements,

Ward 21 \$232 25

Amount paid out of Paving Division . 114 75

 \$347 00
Cheney street.

Paving	\$30 87
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Cliff street, Warren to Washington street, macadamized, edge-stone reset, gutters repaved, brick sidewalks relaid.

Labor	.	.	.	.	.	.	.	\$1,013 61
Teaming	.	.	.	.	.	.	.	692 50
Gravel	.	.	.	.	.	.	.	242 90
Bricks	.	.	.	.	.	.	.	77 00
Stone	.	.	.	.	.	.	.	690 28
Steam roller	.	.	.	.	.	.	.	91 00
Amount paid to Barnes, Ruffin Company, paving	.	.	.	.	.	.	.	757 44

 \$3,564 73
Copeland street.

Gravel	.	.	.	.	.	.	.	\$11 25
Teaming	.	.	.	.	.	.	.	28 00

 \$39 25

Elm Hill avenue, macadamized.

Labor	\$577 67
Teaming	1,143 50
Gravel	22 30
Stone	1,817 37
Steam roller	247 00
Paving	33 58
Hardware	1 58
	<hr/>
	\$3,843 00
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Galena street.

Teaming	\$595 50
Gravel	15 00
Amount paid to John McCourt, paving	438 59
	<hr/>
	\$1,049 09
	<hr/>

Gaston street.

Gravel	\$7 00
	<hr/>

Georgia street.

Labor	\$51 47
Gravel	13 75
	<hr/>
	\$65 22
	<hr/>

Glenwood street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid.

Labor	\$408 10
Teaming	355 50
Brick	71 00
Gravel and sand	175 05
Stone	212 44
Amount paid to Barnes, Ruffin Company, paving	465 15
	<hr/>
	\$1,687 24
	<hr/>

Hamerton street.

Gravel	\$6 25
	<hr/>

Holborn street, unfinished work from 1896.

Stone	\$997 66
Steam roller	150 00
Teaming	33 00
	<hr/>
	\$1,180 66
	<hr/>

Humboldt avenue.

Labor	\$146 95
Teaming	433 00
	<hr/>

Carried forward, **\$579 95**

Schuyler street.

Paving	.	.	.	.	.	.	.	\$61 60
Gravel	.	.	.	.	.	.	.	11 25
								\$72 85

Walnut avenue.

Teaming	\$194	50
Stone	1,303	83
Gravel and sand	122	35
	<hr/>	
	\$1,620	68

Warren street, Waverly to Quincy street, macadamized,
edgestones reset, gutters repaved.

Labor	.	.	.	.	.	.	\$674 73
Teaming	.	.	.	.	.	.	1,037 50
Gravel and sand	.	.	.	.	.	.	409 20
Bricks	.	.	.	.	.	.	22 00
Stone	.	.	.	.	.	.	260 83
Steam roller	.	.	.	.	.	.	383 50
Amount paid to John McCourt, paving	.	.					812 70
							\$3,600 46

Washington street.

Teaming	\$114	50
Gravel	27	95
								\$142	45

Wayne street.

Paving	\$34 98
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Wenonah street, macadamized, edgestone reset, gutters repaved, brick sidewalks laid.

Labor	.	.	.	.	.	.	\$469 84
Teaming	.	.	.	.	.	.	359 50
Stone	.	.	.	.	.	.	583 58
Gravel and sand	.	.	.	.	.	.	120 70
Bricks	.	.	.	.	.	.	105 00
Steam roller	.	.	.	.	.	.	13 22
Amount paid to John McCourt, paving	.	.					541 84
							\$2,193 68

Winthrop street.

Bricks
Gravel
							<u>\$54 95</u>

STREET IMPROVEMENTS, WARD 22.

Amory street.

Paving	<u>\$20 00</u>
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Arcadia street, macadamized, edgestone reset, gutters paved, sidewalks relaid.

Labor	\$180 90
Steam roller	39 00
Amount paid to Barnes, Ruffin Company, paving .	<u>669 70</u>

<u>\$889 60</u>

Arklow street.

Gravel	\$31 70
Stone	65 78
Teaming	<u>235 00</u>

\$332 48

Amount paid out of Street Improvements, Ward 22	\$235 00
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Amount paid out of Street Improvements, Ward 19	31 70
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Amount paid out of Paving Division .	<u>65 78</u>
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<u>\$332 48</u>

Atherton street, Washington to Amory street, macadamized, edgestone reset, gutters repaved, brick sidewalks relaid, crossings laid.

Labor	\$2,648 55
Teaming	2,860 00
Gravel and sand	432 75
Bricks	75 00
Flagging	92 73
Stone	1,579 90
Steam roller	208 00
Amount paid to Barnes, Ruffin Company, paving .	<u>1,170 77</u>

<u>\$9,067 70</u>

Amount paid out of Street Improvements, Ward 22	\$8,278 50
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Amount paid out of Street Improvements, Ward 19	789 20
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<u>\$9,067 70</u>

Bickford street, edgestone set.

Teaming	\$98 25
Paving	<u>33 50</u>

<u>\$131 75</u>

Boylston street , Washington street to railroad, macadamized.	
Labor	\$171 70
Teaming	28 00
Stone	1,368 25
Paving	29 32

\$1,597 27

Amount paid out of Street Improvements,	
Ward 22	\$867 58
Amount paid out of Paving Division	729 69

\$1,597 27

Brookline avenue, repaired.

Stone	\$596 56
Gravel	44 50
Teaming	238 50

\$879 56

Centre street, N. Y., N. H. & H. R.R. to Corey street, edge-stone reset, gutters repaved.

Paving	\$362 09
Gravel	13 10

\$375 19

Amount paid out of Street Improvements,	
Ward 22	\$362 09
Amount paid out of Paving Division	13 10

\$375 19

Creighton street, macadamized, edgestones set, gutters repaved.

Teaming	\$270 53
Stone	1,074 40
Gravel	78 75
Paving	86 57

\$1,510 25

Day street.

Teaming	\$26 00
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Forbes street, macadamized.

Labor	\$97 40
Teaming	268 50
Gravel	50 30
Stone	63 33

\$479 53

Amount paid out of Street Improve-	
ments, Ward 22	\$268 50
Amount paid out of Paving Division	211 03

\$479 53

Heath street, repaired.

Stone	\$97 51
Teaming	197 00

 \$294 51

 Amount paid out of Street Improve-
ments, Ward 22

\$197 00

Amount paid out of Paving Division . 97 51

 \$294 51
Paul Gore street.

Teaming	\$24 00
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Ritchie street.

Amount paid to H. P. Nawn, excavating . . .	\$1,118 40
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School street, macadamized, edgestone reset, gutters repaved, sidewalks relaid, crossings laid.

Labor	\$430 10
Teaming	1,289 00
Gravel	175 60
Flagging	60 03
Stone	1,263 03
Steam roller	52 00
Amount paid to Barnes, Ruffin Company, paving .	574 54

 \$3,844 30

 Amount paid out of Street Improve-
ments, Ward 22

.\$3,794 96

Amount paid out of Paving Division . 49 34

 \$3,844 30
Washington street, repaired.

Stone	\$222 72
Flagging	35 84

 \$258 56

 Amount paid out of Street Improve-
ments, Ward 22

\$222 72

Amount paid out of Paving Division . 35 84

 \$258 56

Work done by the Sewer Division

 \$591 28
STREET IMPROVEMENTS, WARD 23.**Ashley street, repaired.**

Labor	\$207 13
Teaming	37 50

 \$244 63

 Amount paid out of Street Improve-
ments, Ward 23

\$229 63

Amount paid out of Paving Division . 15 00

 \$244 63

Baker street, Spring street to Newton line, resurfaced.

Labor	\$333 65
Teaming	978 00
Gravel	267 00
Stone	762 21
	<hr/>
	\$2,340 86

Beech street, Washington street to Anawan avenue, filled and resurfaced.

Labor	\$432 50
Teaming	160 50
Gravel	111 25
Stone	750 00
Filling	783 00
Paving	46 25
	<hr/>
	\$2,283 50

Boylston street, repaired.

Gravel	\$163 76
Teaming	336 00
	<hr/>
	\$499 76

Burnett street, macadamized.

Labor	\$198 75
Stone	922 66
Steam roller	130 00
	<hr/>
	\$1,251 41

Amount paid out of Street Improve-
ments, Ward 23

\$1,121 41

Amount paid out of Paving Division

130 00

\$1,251 41

Call street, Keyes street to the depot, macadamized.

Labor	\$85 00
Teaming	361 00
Gravel	111 25
Stone	994 59
Advertising	7 50
	<hr/>

\$1,559 34

Centre street, South to May street, macadamized.

Labor	121 10
Teaming	228 00
Stone	2,128 06
Steam roller	78 00
Paving	46 23
Artificial stone sidewalks	135 48
	<hr/>

\$2,736 87

Corey street, resurfaced.

Labor	\$36 00
Teaming	54 50
Stone	337 92

\$428 42
Cornwall street, resurfaced.

Teaming	\$294 50
Gravel	26 70

\$321 20

Amount paid out of Street Improve-
ments, Ward 23 \$216 20

Amount paid out of Street Improve-
ments, Ward 22 105 00

\$321 20
Green street, Washington to Centre street, macadamized.

Labor	\$198 50
Teaming	72 00
Gravel	44 50
Stone	988 93
Steam roller	143 00

\$1,446 93

Amount paid out of Street Improve-
ments, Ward 23 \$1,303 93

Amount paid out of Paving Division 143 00

\$1,446 93
Keyes street, South street to Stony brook, macadamized, gutters paved.

Labor	\$321 50
Teaming	341 50
Gravel	66 75
Stone	1,201 17
Steam roller	130 00
Amount paid to James Dolan, paving	184 88

\$2,245 80

Amount paid out of Street Improve-
ments, Ward 23 \$1,610 08

Amount paid out of Paving Division 635 72

\$2,245 80
Montview street.

Labor	\$18 00
Teaming	78 00

\$96 00

Mt. Vernon street.

Gravel	\$22 25
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Perkins street, Prince street to Parkway, macadamized.

Labor	\$45 00
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Teaming	117 00
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Stone	511 85
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	\$673 85
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Pond street, resurfaced.

Teaming	\$54 00
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Stone	156 09
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	\$210 09
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South street, Spanlding to Centre street, macadamized.

Labor	\$12 00
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Teaming	216 50
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Gravel	54 29
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Stone	1,091 39
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	\$1,374 18
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Spring street, Centre street to Dedham line, macadamized.

Labor	\$419 00
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Teaming	878 00
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Gravel	66 75
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Stone	1,990 38
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	\$3,354 13
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Tappan street, macadamized, edgestone set, gutters paved.

Labor	\$553 35
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Teaming	554 16
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Gravel	113 03
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Stone	426 14
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Amount paid to James Dolan, paving	133 20
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	\$1,779 88
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Varney street.

Gravel	\$44 50
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Walk Hill street, edgestone set, gutters paved.

Labor	\$226 00
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Teaming	269 02
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Paving	88 09
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	\$583 11
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Amount paid out of Street Improve- ments, Ward 23	\$304 79
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Amount paid out of Paving Division	278 32
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	\$583 11
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Washington street, Boylston to Cornwall street, resurfaced.

Labor	\$69 45
Teaming	238 50
Stone	500 00
Paving	72 86
Artificial stone sidewalk	23 58
	<hr/>
	\$904 39

Weld Hill street, resurfaced.

Labor	\$52 50
Teaming	268 50
Gravel	89 00
Stone	32 97
Amount paid to James Dolan, paving	372 95
	<hr/>
	\$815 92

Williams street, repaired.

Labor	\$253 70
Teaming	460 00
	<hr/>
	\$713 70

Amount paid out of street Improve- ments, Ward 23	\$460 00
Amount paid out of Paving Division	253 70
	<hr/>
	\$713 70

STREET IMPROVEMENTS, WARD 24.**Ashmont street, Dorchester avenue to Adams street, macadamized.**

Labor	\$204 60
Teaming	251 61
Gravel	15 73
Stone	630 37
	<hr/>
	\$1,102 31

Amount paid out of Street Improve- ments, Ward 24	\$470 10
Amount paid out of Paving Division	632 21
	<hr/>

\$1,102 31**Blue Hill avenue.**

Labor	\$142 90
Stone	4 17
	<hr/>
	\$147 07

Amount paid out of Paving Division	\$147 07
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Butler street, repaired.

Labor	\$60 60
Teaming	125 00
Stone	172 87
	<hr/>
	\$358 47

Amount paid out of Street Improve- ments, Ward 24	\$185 60
Amount paid out of Paving Division	172 87
	<hr/>

\$358 47**Centre street**, Centre avenue to Adams street, macadamized.

Labor	\$197 50
Teaming	373 91
Stone	870 85
	<hr/>

\$1,442 26

Amount paid out of Street Improve- ments, Ward 24	\$1,236 93
Amount paid out of Street Improve- ments, Ward 20	45 08
Amount paid out of Paving Division	160 25
	<hr/>

\$1,442 26**Corbett street**.

Stone	\$30 75
	<hr/>

Dix street, repaired.

Stone	\$142 62
Teaming	126 00
	<hr/>

\$268 62

Amount paid out of Street Improve- ments, Ward 24	\$116 00
Amount paid out of Paving Division	152 62
	<hr/>

\$268 62**Euclid street**, repaired.

Labor	\$36 00
Teaming	230 50
Stone	214 70
	<hr/>

\$481 20

Amount paid out of Street Improve- ments, Ward 24	\$266 50
Amount paid out of Paving Division	214 70
	<hr/>

\$481 20**Evans street**, repaired.

Stone	\$253 96
Amount paid out of Street Improve- ments, Ward 24	\$214 50
Amount paid out of Paving Division	39 46
	<hr/>

\$253 96

Marsh street.

Teaming	\$8 00
Stone	46 76
	<hr/>
	\$54 76

Amount paid out of Street Improve-
ments, Ward 24

\$8 00

Amount paid out of Paving Division

46 76

\$54 76

Medway street, Adams street to the railroad, macadamized.

Labor	\$87 25
Teaming	208 00
Stone	317 29
	<hr/>
	\$612 54

Amount paid out of Street Improve-
ments, Ward 24

\$590 96

Amount paid out of Paving Division

21 58

\$612 54

Milton avenue, Norfolk to Edson street, macadamized.

Labor	\$562 00
Teaming	333 13
Gravel	71 50
Stone	324 33
Paving	79 23
	<hr/>
	\$1,370 19

Amount paid out of Street Improve-
ments, Ward 24

\$1,286 26

Amount paid out of Paving Division

83 93

\$1,370 19

Morton street, Blue Hill avenue to Sanford street, macadamized.

Labor	\$177 60
Teaming	259 00
Gravel	38 61
Stone	526 91
	<hr/>
	\$1,002 12

Amount paid out of Street Improve-
ments, Ward 24

\$944 02

Amount paid out of Paving Division

58 10

\$1,002 12

Neponset avenue.

Labor	\$48 00
Stone	124 31
	<hr/>
	\$172 31

Norfolk street, Walk Hill street to Mattapan square, macadamized.

Labor	\$354 95
Teaming	1,329 50
Gravel	135 85
Stone	3,373 16
Steam roller	169 00

\$5,362 46

Amount paid out of Street Improvements, Ward 24 \$4,582 47

Amount paid out of Street Improvements, Ward 20 664 99

Amount paid out of Paving Division 115 00

\$5,362 46

Richmond street, Adams street to Dorchester avenue, macadamized.

Labor	\$132 60
Teaming	212 50
Stone	270 50

\$615 60

Amount paid out of Street Improvements, Ward 24 \$397 93

Amount paid out of Paving Division, 217 67

\$615 60

Sanford street, macadamized.

Labor	\$116 00
Teaming	697 50
Gravel	203 06
Stone	958 82
Steam roller	26 00

\$2,001 38

Talbot avenue, Washington street to the bridge, constructed.

Labor	\$2,403 95
Teaming	2,962 00
Gravel	344 63

\$5,710 58

Amount paid out of Street Improvements, Ward 24 \$3,260 96

Amount paid out of Street Improvements, Ward 20 1,634 02

Amount paid out of Paving Division, 815 60

\$5,710 58

Tenean street, Freeport to Fulton street, macadamized, plankwalks and fences built.

Labor	\$988 27
Teaming	1,357 00
Gravel	900 90
Stone	7,007 63
Steam roller	728 00
Lumber	436 08

 \$11,417 88

 Amount paid out of Street Improve-
ments, Ward 24

\$6,388 45

Amount paid out of Paving Division . 5,029 43

 \$11,417 88

STREET IMPROVEMENTS, WARD 25.

Aldie street, Franklin to Athol street, macadamized, gutters paved.

Labor	\$258 67
Teaming	442 00
Gravel	131 97
Stone	179 10
Steam roller	78 10
Advertising	7 34

 Amount paid out to Geo. H. Wentworth & Co.,
paving

270 45

 \$1,367 53

Bayard street, North Harvard to Myrick street, macadamized, gutters repaved.

Labor	\$308 02
Teaming	198 00
Stone	51 15
Gravel	268 71
Steam roller	39 00
Amount paid to James Grant, paving	218 57

 \$1,083 45

Cambridge and Warren street, in front of High School, macadamized, edgestone set, gutters paved, brick sidewalks laid.

Labor	\$419 75
Teaming	361 50
Gravel	275 07
Stone	1,006 38
Amount paid to G. H. Wentworth & Co., paving	276 76

 \$2,339 46

Chestnut Hill avenue, corner Beacon street, macadamized,
edgestone set, gutters paved.

Labor	\$1,065 44
Teaming	476 50
Gravel	38 16
Stone	670 23
Edgestone	116 57
Amount paid to G. H. Wentworth & Co., paving .	183 65

\$2,550 55

Foster street, Washington to Surrey street, macadamized,
gutters paved, sidewalks concreted.

Labor	\$299 10
Teaming	222 50
Gravel	205 11
Stone	92 40
Steam roller	52 00
Amount paid to James Grant, paving	148 22
Concrete sidewalks	59 00

\$1,078 33

Harvard avenue, .

Teaming	\$9 00
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Leicester street, Surrey to Bennett street, macadamized.

Labor	\$599 84
Teaming	404 50
Gravel	537 42
Stone	508 20
Steam roller	65 00
Flagging	34 02
Paving	36 34

\$2,185 32

Lincoln street, Market to Cambridge street, macadamized,
edgestone set, gutters paved.

Labor	\$2,242 60
Teaming	1,851 50
Gravel	370 47
Stone	2,388 85
Steam roller	221 00
Amount paid to James Grant, paving	1,445 94

\$8,520 36

Linden street, Commonwealth avenue to Cambridge street,
macadamized, edgestone set, gutters paved.

Labor	\$1,729 34
Teaming	912 59
Gravel	190 80
Stone	1,471 80
Steam roller	273 00
Artificial stone sidewalk	37 08
Amount paid to James Grant, paving	567 60

\$5,182 21

Menlo street.

Labor	\$79 75
Paving	19 11

\$98 86

Myrick street, Bayard to Franklin street, resurfaced.

Labor	\$154 85
Teaming	166 50
Gravel	41 34
Stone	18 15

\$380 84

North Beacon street, Market street to the river, macadamized.

Labor	\$717 86
Teaming	289 00
Gravel	1,465 98
Stone	1,202 85
Steam roller	143 00
Advertising	3 66
Paving	13 62

\$3,835 97

North Harvard street.

Labor	\$95 50
Teaming	210 50
Stone	176 75

\$482 75

Parsons street.

Paving	\$28 67
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\$28 67

Portsmouth street, Lincoln to Waverly street, macadamized.

Labor	\$386 25
Teaming	97 50
Gravel	310 05
Steam roller	39 00
Sundries	20 00

\$852 80

Riverdale street, resurfaced.

Labor	\$114 00
Teaming	115 00
Stone	79 20
Steam roller	104 00
	<hr/>
	\$412 20

Surrey street, Market to Foster street, macadamized; and from Foster to Parsons street, gutters paved, crossings laid.

Labor	\$884 68
Teaming	307 50
Gravel	329 13
Stone	1,120 35
Steam roller	156 00
Flagging	63 26
Artificial stone sidewalk	45 28
Paving	115 63
	<hr/>
	\$3,021 83

Washington street, Commonwealth avenue to Brookline line, macadamized, edgestone set, gutters paved.

Labor	\$1,080 47
Teaming	306 00
Gravel	445 20
Stone	2,438 15
Steam roller	182 00
Amount paid to Daniel Kiley, paving	361 89
	<hr/>
	\$4,813 71

Waverly street, Market street to Western avenue, macadamized.

Labor	\$91 35
Teaming	208 50
Gravel	114 48
Stone	72 11
Steam roller	65 00
	<hr/>
	\$551 44

Work done by the Bridge Division \$485 00

Work done by the Sewer Division \$82 76

Work done for the Sewer Division and charged to the following appropriations:

Sewer Division \$666 66

Laying out and Construction of Highways, Sewer Construction \$285 15

Canal-street relief sewer \$48 60

*SUMMARY OF EXPENDITURES UNDER
SPECIAL APPROPRIATIONS.*

TOTAL AMOUNT EXPENDED.

Abbotsford street, Ward 21	\$3,064 59
Adams street (Dorchester)	9,417 84
Adelaide street, Ward 22	6,461 50
Albany street	6,883 07
Appleton street	14,629 00
Boylston street, Berkeley to Clarendon	12,496 90
Cabot street, Linden Park to Vernon street	6,770 47
Calumet street	399 65
Carleton street	420 71
Centre street (Dorchester)	8,414 76
Centre street (Roxbury), Hog bridge to Day street	9,660 63
Centre street, Ward 23, Maple to Spring street	10,857 70
Charles street	28,237 28
Commonwealth avenue	31,852 99
Congress and L streets	2,958 61
Dudley street	38,710 43
Franklin street, Ward 25	2,240 70
Freeport street, Ward 24	93 75
Gold-street bridge	27,223 38
Lamartine street, Ward 22	10,500 67
Lincoln place	1,500 00
McLellan street	3,964 69
North Margin street	2,824 14
Quincy street, Ward 4 (now St. Martin street)	3,516 44
Rand street	2,930 33
South Union Station	7,036 98
State street	27,964 06
Sydney street, Ward 20	5,560 54
Tremont street, Lenox street to Roxbury crossing, Unity street	35,196 11
Washington street, Dover to Waltham street	2,815 09
Washington street, Eliot to Dover street	27,204 68
Western avenue	55,630 38
Wharf and buildings, East Boston	13,689 48
15,000 00	
Street Improvements, Ward 1 :	
Bennington street	69 00
Border street	19,739 17
Bremen street	2,942 43
Brooks street	35 00
Byron street	65 80
Condor street	1,183 96
Glendon street	529 78

Carried forward,

\$460,692 69

<i>Brought forward,</i>	\$460,692 69
Homer street	229 60
Horace street	193 70
Lexington street	8,598 35
Meridian street	525 36
Moore street	2,655 14
Prescott street	386 25
Princeton street	433 35
Putnam street	353 75
Saratoga street	2,949 68
Sumner street	75 33
Walley street	1,034 63
West Eagle street	315 76
White street	135 25
Sewer Division	148 16
Street Improvements, Ward 2 :	
Chelsea street	119 00
Everett street	8,548 72
Ferry avenue	105 96
Havre street	419 87
Lamson street	56 00
Liverpool street	490 68
London street	1,265 47
Maverick street	824 88
Morris street	140 00
Porter street	1,337 92
Sewer Division	211 36
Street Improvements, Ward 3 :	
Concord street	2,211 93
Decatur street	4 90
High street	678 65
Hull street	275 10
Lexington street	5,196 17
Medford street	99 10
Monument street	2,093 49
Princeton street	8 55
Sprague street	1 50
Trenton street	1,910 86
Vine, Tufts, Moulton and Corey streets	12,955 77
Sewer Division	19 48
Street Improvements, Ward 4 :	
Alford street	4,381 16
Arlington avenue	531 16
Auburn street	1,860 93
Baldwin street	4,356 77
Beacham street	762 30
Dorrance street	1,272 11
Gardner street	140 10
Main street	22,557 04
<i>Carried forward,</i>	\$553,563 93

<i>Brought forward,</i>	\$553,563 93
Mead street	1,426 48
Short street	178 10
Sullivan street	2,699 57
Walker street	80 00
Sewer Division	23 01
Street Improvements, Ward 5 :	
Adams street	2,892 68
Boyle street	507 58
Charles-river avenue	203 07
Common street	2,328 17
Devens street	3,145 56
Joiner street	25 50
Parker street	1,453 56
Putnam street	34 50
Rutherford avenue	366 01
Warren avenue	847 23
Water street	162 60
Sewer Division	1 63
Street Improvements, Ward 6 :	
Atlantic avenue	755 42
Batterymarch street	64 33
Beacon street	36 00
Blackstone street	266 35
Bulfinch street	2,070 14
Clark street	1,550 61
Commercial street	282 05
Congress street	3,838 40
Cooper street	1,376 04
Foster street	813 24
Hanover street	138 51
Harris street	217 76
Lafayette avenue	540 77
Lime alley	391 18
North street	1,968 98
Somerset street	316 07
Subway repairs	179 80
Water street	98 67
Wiget street	1,671 65
Street Improvements, Ward 7 :	
Atlantic avenue	351 45
Avery street	1,304 18
Boylston street	863 20
Chauncy street	61 00
Congress street	2,281 19
Corning street	68 08
Dix place	1,189 09
Exeter place	1,038 52
La Grange street	1,438 81

Carried forward,

\$595,110 67

<i>Brought forward,</i>	\$595,110 67
Mason street	607 85
Ohio street	39 56
Park street	734 32
Pine street	85 13
Wendell street	1,082 54
Winthrop square	11,475 21
Street Improvements, Ward 8 :	
Bowdoin street	728 80
Chambers street	473 21
Derne street	148 41
Eaton street	1,222 54
Fruit street	2,204 31
Haverhill street	1,490 54
Joy street	93 00
Lowell street	27 00
Mt. Vernon street	1,074 56
North Grove street	3,772 34
North Russell street	405 98
Staniford street	3,362 58
Street Improvements, Ward 9 :	
Acton street	982 60
Albion street	7 75
Bradford street	5,274 64
Canton street	17 93
Cobb street	4,084 07
Dedham street	24 24
Hamburg street	87 96
Laconia street	103 01
Mayo street	1,879 92
Meander street	77 23
Mystic street	140 84
Norwich street	50 91
Paul street	2,555 94
Pelham street	3,287 88
Taylor street	25 72
Upton street	1,102 86
Union Park street	7,882 83
Waterford street	2,439 63
Street Improvements, Ward 10 :	
Boylston street	1,152 16
Bryant street	1,660 13
Church street	2,793 72
Cortes street	2,141 09
Dartmouth street	33 00
Dundee street	4,466 05
Falmouth street	8,195 74
Fayette street	10 75
Ferdinand street	723 69
<i>Carried forward,</i>	\$675,340 84

<i>Brought forward,</i>	\$675,340 84
Isabella street	1,472 32
Knox street	280 52
Massachusetts avenue	6,125 73
Norway street	602 94
St. Botolph street	1,868 09
Yarmouth street	557 70
Street Improvements, Ward 11 :	
Arlington street	1,967 21
Andubon road	327 13
Beacon street	29,481 77
Berkeley street	34 00
Boylston street	1,344 85
Exeter street	393 23
Massachusetts avenue	636 92
Newbury street	448 50
Pinckney street	729 55
Street Improvements, Ward 12 :	
Camden street	3,229 08
Concord square	3,302 60
East Brookline street	161 65
East Lenox street	4,675 82
Fellows street	92 00
Greenwich park	2,069 45
Massachusetts avenue	5,563 11
Newland street	295 17
Reed street	397 66
Reed street	1,215 77
Sharon street	5,833 23
West Newton street	2,299 18
Street Improvements, Ward 13 :	
B street	133 40
Baxter street	2,164 89
Broadway	28,774 45
D street	122 80
Dorchester avenue	1,003 15
First street	64 11
Bridge Division	2,240 63
Sewer Division	445 34
Street Improvements, Ward 14 :	
Beckler avenue	468 01
Broadway, L to Q street	12,880 82
Broadway in front of Lincoln school	2,880 71
East Second street	208 00
East Seventh street	1,195 93
F street	7 63
Fifth street	580 90
First street	2,010 68
Fourth street	252 49

Carried forward,

\$806,179 96

STREET DEPARTMENT — PAVING DIVISION. 173

<i>Brought forward,</i>	\$806,179 96
I street	9 50
Jay street	574 88
L street, Broadway to Fourth	1,779 06
L street, Broadway to First	1,589 21
L street, Seventh to Eighth	361 29
M street	1,071 34
N street	497 99
Ninth street	1,757 06
O street	2,150 58
Third street	2,133 87
Sewer Division	247 87
Street Improvements, Ward 15 :	
Broadway	5,752 08
Covington street	5,045 41
East Fifth street	66 85
G street	90 55
Gates street	3,279 96
H street	431 54
K street	162 40
Mercer street	2,073 72
Middle street	409 84
Mitchell street	675 10
Newman street	1,271 02
Ninth street	7,457 52
Old Harbor street	56 00
Telegraph street	105 50
Thomas park	2,013 17
Vale street	335 43
Sewer Division	147 13
Street Improvements, Ward 16 :	
Alexander street	2,830 77
Andrew square	2,429 41
Blue Hill avenue	310 10
Boston street	2,016 20
Brookford street	679 23
Burnham street	1,149 44
Buttonwood street	1,598 98
Clapp street	131 51
Dacia street	166 19
Dean street	13 59
Dorchester avenue	419 60
Dove street	513 43
Folsom street	1,886 45
Humphreys street	551 67
Ingleside street	162 60
Judson street	935 40
Julian street	647 95
Leyland street	152 01
<i>Carried forward,</i>	\$864,320 36

<i>Brought forward,</i>	\$864,320 36
Locust street	306 28
Magnolia street	2,404 29
Massachusetts avenue	1,044 05
Monadnock street	1,040 01
Mt. Vernon street	1,281 31
Virginia street	279 90
Willow court	656 61
Woodward Park street	315 09
Sewer Division	382 66
Street Improvements, Ward 17 :	
Cottage street	3,231 31
Fellows street	5 00
Howard avenue	1,879 50
Hudson street	808 48
Hunneman street	401 25
Magazine street	4,520 06
Mall street	1,331 57
Marshfield street	156 00
Mt. Pleasant avenue	7,373 04
Pontine street	280 90
Shirley street	5,366 08
Washington street	69 00
Winslow street	1,681 04
Zeigler street	4,514 61
Street Improvements, Ward 18 :	
Ball street	2,501 32
Culvert street	317 64
Cunard street	2,069 99
Dudley street	1,473 73
Greenwich street	8 50
Linden Park street	1,185 84
Roxbury street	473 45
Ruggles street	3,966 80
Sarsfield street	2,049 54
Walpole street	1,239 72
Washington street	146 10
Westminster street	570 16
Weston street	1,244 79
Williams street	4,915 03
Sewer division	268 55
Street Improvements, Ward 19 :	
Autumn street	192 45
Bellevue street	1,387 47
Bromley street	777 18
Brookline avenue	158 62
Centre street	2,358 15
Conant street	2,355 30
Elmwood street	43 50
<i>Carried forward,</i>	\$933,352 23

<i>Brought forward,</i>	\$933,352 23
Faxon street	16 35
Greenwich street	6 25
Heath place	777 21
Highland street	15 00
Huntington avenue	330 00
King street	349 95
Lawn street	294 97
Linwood street	110 50
Longwood avenue	12,107 97
Marcella street	113 00
Minden street	2,948 28
Parker street	81 46
Smith street	668 54
Station street	1,923 86
Wait street	245 83
Walden street	37 00
Wigglesworth street	131 00
Sewer division	829 54
Street Improvements, Ward 20 :	
Auckland street	1,223 71
Barrington street	122 16
Blue Hill and Lawrence avenues	196 62
Bradlee street	575 23
Charles street	1,658 17
Cushing avenue	328 68
Dorchester avenue	499 96
Grampian Way	75 20
Greenwich street	3,086 79
Hancock street	218 45
Harvard street	3,637 84
Lyons street	841 37
Mayfield street	416 46
Northern avenue	18 85
Park street	276 60
Pleasant street	292 98
Quincy street	3,341 20
Savin Hill avenue	1,797 13
Shamrock street	1,573 24
Topliff street	307 20
Washington street	1,728 15
Westville street	198 50
Street Improvements, Ward 21 :	
Bainbridge street	347 00
Cheney street	30 87
Cliff street	3,564 73
Copeland street	39 25
Elm Hill avenue	3,843 00
Galena street	1,049 09
<i>Carried forward,</i>	\$985,627 37

<i>Brought forward,</i>	\$985,627 37
Gaston street	7 00
Georgia street	65 22
Glenwood street	1,687 24
Hamerton street	6 25
Holborn street	1,180 66
Humboldt avenue	926 26
Lansing street	22 80
Laurel street	1,204 51
Maple street	2,210 93
Mayfair street	953 67
Maywood street	5 00
Rockland street	52 65
Ruthven street	2,240 94
Schuyler street	72 85
Walnut avenue	1,620 68
Warren street	3,600 46
Washington street	142 45
Wayne street	34 98
Wenonah street	2,193 68
Winthrop street	54 95
Street Improvements, Ward 22 :	
Amory street	20 00
Arcadia street	889 60
Arklow street	332 48
Atherton street	9,067 70
Bickford street	131 75
Boylston street	1,597 27
Brookside avenue	879 56
Centre street	375 19
Creighton street	1,510 25
Day street	26 00
Forbes street	479 53
Heath street	294 51
Paul Gore street	24 00
Ritchie street	1,118 40
School street	3,844 30
Washington street	258 56
Sewer Division	591 28
Street Improvements, Ward 23 :	
Ashley street	244 63
Baker street	2,340 86
Beech street	2,283 50
Boylston street	499 76
Burnett street	1,251 41
Call street	1,559 34
Centre street	2,736 87
Corey street	428 42
Cornwall street	321 20
<i>Carried forward,</i>	\$1,037,016 92

<i>Brought forward,</i>	\$1,037,016 92
Green street	1,446 93
Keyes street	2,245 80
Montview street	96 00
Mt. Vernon street	22 25
Perkins street	673 85
Pond street	210 09
South street	1,374 18
Spring street	3,354 13
Tappan street	1,779 88
Varney street	44 50
Walk Hill street	583 11
Washington street	904 39
Weld Hill street	815 92
Williams street	713 70
Street Improvements, Ward 24 :	
Ashmont street	1,102 31
Blue Hill avenue	147 07
Butler street	358 47
Centre street	1,442 26
Corbett street	30 75
Dix street	268 62
Euclid street	481 20
Evans street	253 96
Marsh street	54 76
Medway street	612 54
Milton avenue	1,370 19
Morton street	1,002 12
Neponset avenue	172 31
Norfolk street	5,362 46
Richmond street	615 60
Sanford street	2,001 38
Talbot avenue	5,710 58
Tenean street	11,417 88
Street Improvements, Ward 25 :	
Aldie street	1,367 53
Bayard street	1,083 45
Cambridge street and Warren street	2,339 46
Chestnut Hill avenue	2,550 55
Foster street	1,078 33
Harvard avenue	9 00
Leicester street	2,185 32
Lincoln street	8,520 36
Linden street	5,182 21
Menlo street	98 86
Myrick street	380 84
North Beacon street	3,835 97
North Harvard street	482 75
Parsons street	28 67

Carried forward, \$1,112,829 41

<i>Brought forward,</i>	\$1,112,829 41
Portsmouth street	852 80
Riverdale street	412 20
Surrey street	3,021 83
Washington street	4,813 71
Waverly street	551 44
Bridge Division	485 00
Sewer Division	82 76
Sewer appropriations :	
Sewer Division	666 66
Laying out and construction of highways, sewer construction	285 15
Canal street relief sewer	48 60
Stony Brook improvement	115 29
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	\$1,124,164 85
Less amount paid out of appropriation for Pav- ing Division	53,245 24
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	\$1,070,919 61

BLUE HILL AND OTHER AVENUES.

Blue Hill avenue:

Labor, including engineering and inspection	\$5,064 81
Teaming	2,950 00
Gravel	97 24
Stone	11,228 71
Blocks	9,349 05
Edgestone and corners	955 16
Flagging	549 67
Wharfage and rent	454 20
Fuel	15 06
Lumber	100 83
Trees	138 75
Relocating building	500 00
Sprinkling	380 00
Advertising	35 00
Sundries	537 12
Amount paid to Doherty & Connors, construction work	19,880 27
Amount paid to H. P. Nawn, construction work	19,498 67
Amount paid to Metropolitan Construction Com- pany, building retaining-wall	8,517 88
Amount paid to D. E. Lynch, paving	3,024 30
Amount paid to Davenport & Cronin, construction work	802 15
Amount paid to H. F. C. Holbrook	500 00
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<i>Carried forward,</i>	¹ \$84,578 87

¹Includes \$926.36 paid by West End Street Railway Company for loan. Includes draft of \$800 shown in last year's cost, but paid in 1897.

<i>Brought forward,</i>	\$84,578 87
Amount paid out of Blue Hill and other avenues	\$46,774 70
Amount paid out of Laying-out and Construction of Highways	37,804 17
	<hr/>
	\$84,578 87

Columbus avenue.

Labor, including engineering and inspection	\$11,981 89
Teaming	8,380 50
Gravel and sand	1,046 50
Stone	12,059 93
Steam-roller	260 00
Bricks	895 75
Blocks	1,078 55
Edgestone	263 47
Fuel	1 74
Lumber	42 36
Artificial stone sidewalks	136 62
Advertising	51 25
Sundries	36 05
Amount paid to Boston Asphalt Company, as- phalting	4,160 10
Amount paid to Barber Asphalt Paving Company,	1,513 52
Amount paid to D. E. Lynch, construction work,	3,853 38
Amount paid to Collins & Ham, construction work,	1,224 81
Amount paid to Barnes, Ruffin Company, construc- tion work	1,219 63
Amount paid to P. F. Donovan, construction work,	726 00
Amount paid to Philip Doherty, construction work	570 19
Amount paid to Austin Ford & Son	391 07
	<hr/>
	\$49,893 31

Amount paid out of Blue Hill and other avenues	\$12,026 16
Amount paid out of Laying-out and Construction of Highways	37,867 15
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	\$49,893 31

Commonwealth avenue.

Labor, including engineering and inspection	\$646 65
Teaming	592 50
Stone	278 85
Amount paid to Neill McBride, construction work,	6,577 44
Amount paid to J. A. Whittemore's Sons, con- struction work	2,792 13

Carried forward, ¹\$10,887 57

¹ Includes \$1,088.25 paid by West End Street Railway Company for loam. Includes \$4,051.99 shown in last year's cost, but paid in 1897.

<i>Brought forward,</i>	\$10,887 57
Amount paid out of Blue Hill and other avenues	\$9,803 77
Amount paid out of Laying-out and Construction of Highways	1,083 80
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	\$10,887 57

Huntington avenue.

Labor, including engineering and inspection	\$233 85
Teaming	2,121 50
Stone	7,216 01
Blocks	2,332 12
Bricks	390 00
Lumber	232 71
Paving	34 73
Steam-roller	13 00
Sundries	25 00
Amount paid to Boston Asphalt Co., asphaltting	2,382 53
Amount paid to H. Gore & Co., construction work	1,307 93
Amount paid to Doherty & Connors, construction work	1,277 33
Amount paid to J. B. O'Rourke & Co., construction work	919 19

¹ \$18,485 90

Amount paid out of Blue Hill and other avenues	\$12,494 11
Amount paid out of Laying-out and Construction of Highways	5,991 79
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	\$18,485 90

**SUMMARY OF EXPENDITURES FOR BLUE
HILL AND OTHER AVENUES.**

Blue Hill avenue	\$84,578 87
Columbus avenue	49,893 31
Commonwealth avenue	10,887 57
Huntington avenue	18,485 90

² \$163,845 65

Less amount paid out of appropriation for Laying- out and Construction of Highways	82,746 91
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\$81,098 74

¹ Includes \$274.24 paid by West End Street Railway Company for loam. Includes \$919.19 shown in last year's cost, but paid in 1897.

² Includes \$5,771.18 shown in last year's cost, but paid in 1897.

LAYING OUT AND CONSTRUCTION OF HIGHWAYS.

Abbotsford street , between Walnut avenue and Harold street.	
Labor	\$12 25
Artificial stone sidewalk	45 66
Amount retained from Quimby & Ferguson, for work done under contract in 1896	93 20
	<hr/>
	<u>\$151 11</u>
Athelwold street , between School and Kilton streets.	
Labor	\$316 13
Teaming	12 94
Blocks	839 58
Stone	1,488 22
Flagging	4 04
Edgestone	1,198 15
Wharfage	25 00
Artificial stone sidewalks	212 70
Advertising	26 60
Amount paid to Collins & Ham, construction work	2,936 43
	<hr/>
	<u>\$7,059 79</u>
Audubon road , Beacon street, across Ivy street.	
Amount retained from William Scollans, for work done in 1896 under contract	\$290 69
Bay State road.	
Labor	\$2 50
Bearse street.	
Labor	\$5 50
Belmore terrace.	
Labor	\$19 75
Belvidere street.	
Labor	\$42 25
Stone	113 42
	<hr/>
	<u>\$155 67</u>
Bernard street.	
Labor	\$42 25
Advertising	72 75
	<hr/>
	<u>\$115 00</u>

Bloomfield street, between Geneva avenue and Greenbrier street.

Labor	\$167 74
Stone	1,999 44
Blocks	1,330 92
Bricks	258 50
Advertising	35 10
Amount paid to Collins & Ham, construction work .	1,669 10

\$5,460 80

Boylston street, between Boylston road and Brookline avenue.

Labor	\$987 85
Teaming	442 00
Stand-posts	52 46
Stone	4,292 94
Fuel	4 38
Printing	12 23
Amount paid to Neill McBride, construction work .	8,588 00

\$14,379 86

Brighton avenue, Commonwealth avenue to Cambridge street.

Amount retained from Doherty & Connors, for work done under contract in 1896	\$1,806 19
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Bryant street.

Labor	\$4 00
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Burt street.

Labor	\$13 75
Advertising	5 00

\$18 75

Chamberlain street, between Harvard and Algonquin streets.

Labor	\$176 88
Stone	627 10
Edgestone	597 47
Blocks	244 90
Wharfage	25 00
Paving	9 18
Advertising	28 96
Amount paid to Collins & Ham, construction work .	1,327 43

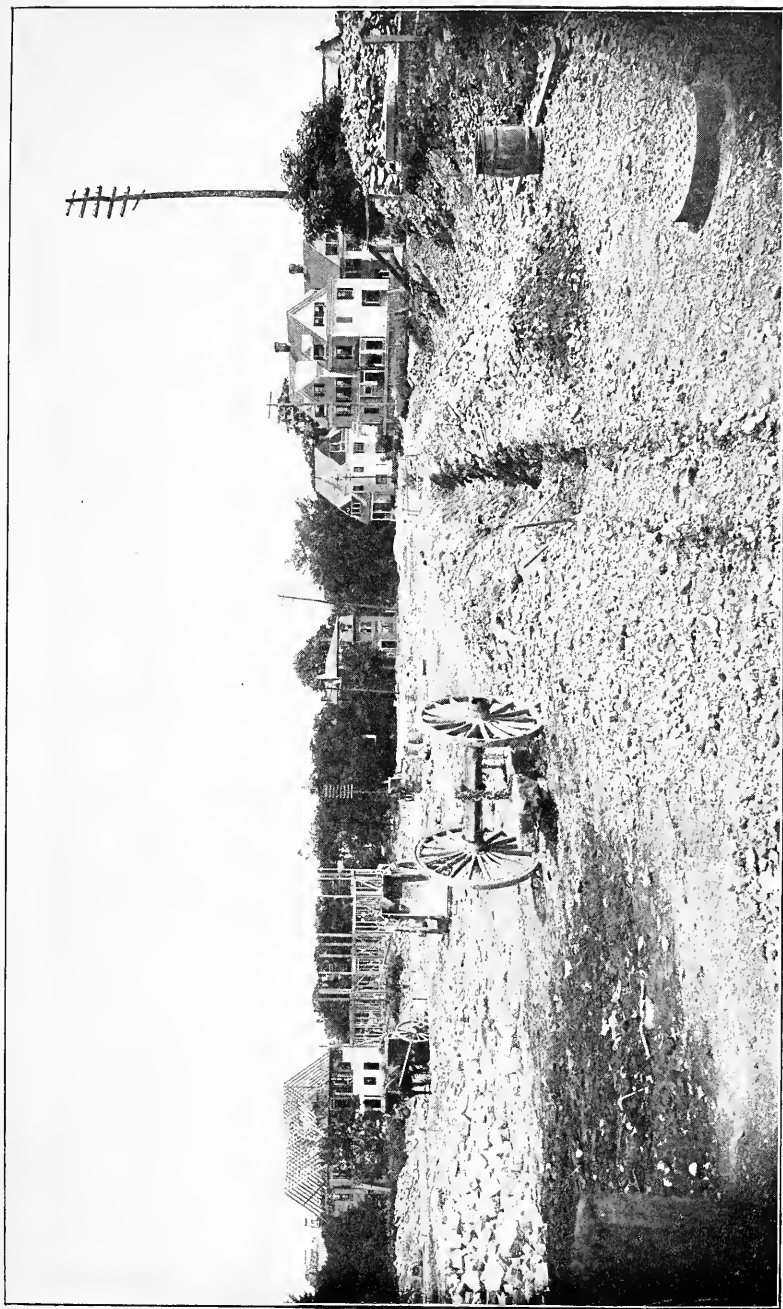
\$3,036 92

Chamblet street.

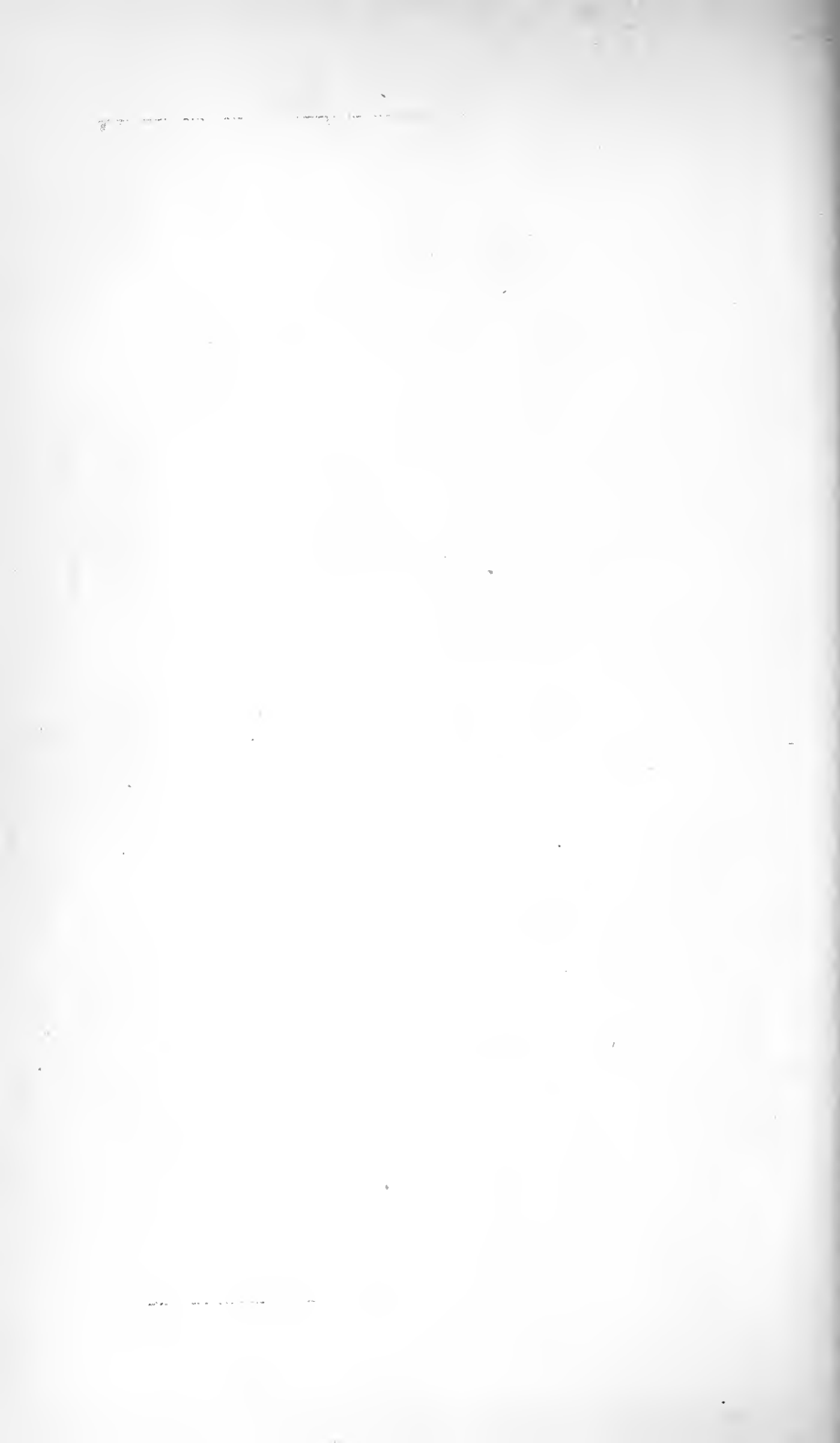
Labor	\$10 75
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Clinton street.

Teaming	\$18 00
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COLUMBIA ROAD, NEAR BLUE HILL AVENUE, UNDER CONSTRUCTION.



Columbia road.

Labor, including engineering and inspection	\$8,496 09
Printing	46 96
Rent	36 00
Teaming	14 75
Advertising	58 87
Fuel	2 71
Sundries	112 30
Amount paid to H. P. Nawn, construction work	10,367 28
	<hr/>
	\$19,134 96

Elizabeth street.

Labor	\$17 25
Advertising	5 00
	<hr/>
	\$22 25

Ellet street, Adams street to Dorchester avenue.

Labor	\$155 74
Stone	604 76
Blocks	414 13
Edgestone	607 43
Advertising	32 07
Amount paid to H. Gore & Co., construction work,	1,082 25
	<hr/>
	\$2,896 38

Engineering expenses.	\$239 82
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Fairmount street.

Labor	\$782 45
Gravel	1,010 62
Stone	792 34
Fuel	1 36
Advertising	24 25
	<hr/>
	\$2,611 02

Fenelon street, between Washington and Merrill streets.

Labor	\$76 25
Teaming	3 84
Stone	88 64
Artificial stone sidewalk	13 14
	<hr/>
	\$181 87

Fullerton street, between Brookline avenue and Fairhaven street.

Labor	\$298 50
Stone	850 47

Carried forward, \$1,148 97

<i>Brought forward,</i>	\$1,148 97
Edgestone	596 59
Blocks	410 80
Advertising	33 07
Amount paid to Philip Doherty, construction work .	2,217 05
	<hr/>
	\$4,406 48

Gaylord street, between Washington and Chamberlain streets.	
Labor	\$140 87
Stone	504 61
Edgestone	533 58
Blocks	372 56
Paving	9 90
Advertising	36 31
Amount paid to Doherty & Connors, construction work	894 91
	<hr/>
	\$2,492 74

Geneva avenue, between Westville street and Dorchester avenue.	
Labor	\$818 57
Teaming	652 00
Blocks	1,136 81
Edgestone	1,918 17
Stone	3,215 79
Printing	6 12
Amount paid to Finneran & O'Hearn, construction work	5,392 43
	<hr/>
	\$13,139 89

Granby street, between Commonwealth avenue and Charles river.	
Amount retained from Quimby & Ferguson, for work done under contract in 1896	¹ \$120 00

Greenbrier street, between Bowdoin and Bloomfield streets.	
Amount retained from Quimby & Ferguson for work done under contract in 1896	² \$130 00

Greenbrier street, between Bloomfield and Park streets.	
Labor	\$265 62
Stone	1,234 25
Edgestone	1,305 91

<i>Carried forward,</i>	\$2,805 78
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¹ Included in cost for 1896 but paid in 1897.

² Included in cost for 1896 but paid in 1897.

STREET DEPARTMENT — PAVING DIVISION. 185

<i>Brought forward,</i>	\$2,805 78
Blocks	429 72
Advertising	28 10
Amount paid to H. Gore & Co., construction work,	2,041 77
	<hr/>
	\$5,305 37
	<hr/>

Harvard street.

Excavating	\$40 00
	<hr/>

Ipswich street, between Boylston road and Boylston street.

Labor	\$847 76
Advertising	6 00
Sundries	9 05
Amount paid to Boston & Albany Railroad Com- pany, filling	15,337 23
Amount paid to Holbrook, Cabot & Daly, retaining- wall	4,922 86
	<hr/>
	\$21,122 90
	<hr/>

Lauriat avenue, between Blue Hill avenue and Tucker street.

Labor	\$335 75
Teaming	72 50
Edgestone	547 70
Blocks	246 88
Stone	1,175 96
Artificial stone sidewalks	84 00
Printing	6 11
Amount paid to Doherty & Connors, construction work	5,150 91
	<hr/>
	\$7,619 81
	<hr/>

Leroy street.

Labor	\$25 50
Advertising	5 00
	<hr/>
	\$30 50
	<hr/>

Malvern street.

Labor	\$4 00
Advertising	5 00
	<hr/>
	\$9 00
	<hr/>

Medway street.

Labor	\$9 00
	<hr/>

Ruggles street, between Parker street and Back Bay Fens.

Labor	\$200 25
Edgestone	32 61
Advertising	29 06
Amount paid to Doherty & Connors, construction work	740 42
	<hr/>
	\$1,002 34
	<hr/>

St. Alphonsus street, between Tremont and Calumet streets.

Gravel	\$216 00
Amount retained from Quimby & Ferguson, for work done under contract in 1896	130 00
	<hr/>
	¹ \$346 00
	<hr/>

St. Stephen street.

Labor	\$632 22
Amount paid to D. H. Sullivan, filling	534 95
	<hr/>
	\$1,167 17
	<hr/>

Tonawanda street, between Geneva avenue and Greenbrier street.

Labor	\$420 88
Edgestone	189 69
Stone	653 42
Blocks	265 66
Advertising	33 25
Sundries	1 36
Amount paid to Philip Doherty, construction work,	573 33
	<hr/>
	\$2,137 59
	<hr/>

Turner street, between Haviland and Astor streets.

Labor	\$204 88
Teaming	174 00
Bricks	443 10
Blocks	485 07
Edgestone	782 97
Stone	520 03
Advertising	31 05
Filling	164 40
Amount paid to Doherty & Connors, construction work	3,528 52
	<hr/>
	\$6,334 02
	<hr/>

¹ Includes \$130, shown in last year's cost, but paid in 1897.

Vancouver street, between Huntington avenue and Ruggles street.

Labor	\$94 25
Advertising	31 56
Edgestone	20 37
Amount paid to Doherty & Connors, construction work	425 42
	<hr/>
	\$571 60

Vose street.

Labor	\$5 50
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Waterlow street.

Advertising	\$5 00
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Wilder street, between Washington street and Geneva avenue.

Labor	\$68 50
Stone	20 57
Teaming	2 98
Amount paid to Finneran & O'Hearn, construction work	249 77
	<hr/>
	\$341 82

Wolcott street, between Columbia road and Erie street.

Labor	\$159 00
Stone	978 50
Blocks	551 02
Edgestone	728 98
Wharfage	25 00
Advertising	35 56
Amount paid to Collins & Ham, construction work,	1,403 25
	<hr/>
	\$3,881 31

SUMMARY OF EXPENDITURES.**LAYING-OUT AND CONSTRUCTION OF HIGHWAYS.****TOTAL AMOUNT EXPENDED.**

Blue Hill avenue	\$37,804 17
Columbus avenue	37,867 15
Commonwealth avenue	1,083 80
Huntington avenue	5,991 79
Abbotsford street	151 11
Athelwold street	7,059 79
Audubon road	290 69
Bay State road	2 50
	<hr/>
<i>Carried forward,</i>	\$90,251 00

<i>Brought forward,</i>						\$90,251 00
Bearse street . . . . .	.	.	.	.	.	5 50
Belmont terrace . . . . .	.	.	.	.	.	19 75
Belvidere street . . . . .	.	.	.	.	.	155 67
Bernard street . . . . .	.	.	.	.	.	115 00
Bloomfield street . . . . .	.	.	.	.	.	5,460 80
Boylston street . . . . .	.	.	.	.	.	14,379 86
Brighton avenue . . . . .	.	.	.	.	.	1,806 19
Bryant street . . . . .	.	.	.	.	.	4 00
Burt street . . . . .	.	.	.	.	.	18 75
Chamberlain street . . . . .	.	.	.	.	.	3,036 92
Chamblet street . . . . .	.	.	.	.	.	10 75
Clinton street . . . . .	.	.	.	.	.	18 00
Columbia road . . . . .	.	.	.	.	.	19,134 96
Elizabeth street . . . . .	.	.	.	.	.	22 25
Ellet street . . . . .	.	.	.	.	.	2,896 38
Engineering expenses . . . . .	.	.	.	.	.	239 82
Fairmount street . . . . .	.	.	.	.	.	2,611 02
Fenelon street . . . . .	.	.	.	.	.	181 87
Fullerton street . . . . .	.	.	.	.	.	4,406 48
Gaylord street . . . . .	.	.	.	.	.	2,492 74
Geneva avenue . . . . .	.	.	.	.	.	13,139 89
Granby street . . . . .	.	.	.	.	.	120 00
Greenbrier street . . . . .	.	.	.	.	.	130 00
Greenbrier street . . . . .	.	.	.	.	.	5,305 37
Harvard street . . . . .	.	.	.	.	.	40 00
Ipswich street . . . . .	.	.	.	.	.	21,122 90
Lauriat avenue . . . . .	.	.	.	.	.	7,619 81
Leroy street . . . . .	.	.	.	.	.	30 50
Malvern street . . . . .	.	.	.	.	.	9 00
Medway street . . . . .	.	.	.	.	.	9 00
Morse street . . . . .	.	.	.	.	.	98 40
Norway street . . . . .	.	.	.	.	.	6,054 06
Peterborough street . . . . .	.	.	.	.	.	25,882 33
Peverell street . . . . .	.	.	.	.	.	469 12
Queensberry street . . . . .	.	.	.	.	.	18,029 00
Rosseter street . . . . .	.	.	.	.	.	5 00
Ruggles street . . . . .	.	.	.	.	.	1,002 34
St. Alphonsus street . . . . .	.	.	.	.	.	346 00
St. Stephen street . . . . .	.	.	.	.	.	1,167 17
Tonawanda street . . . . .	.	.	.	.	.	2,137 59
Turner street . . . . .	.	.	.	.	.	6,334 02
Vancouver street . . . . .	.	.	.	.	.	571 60
Vose street . . . . .	.	.	.	.	.	5 50
Waterlow street . . . . .	.	.	.	.	.	5 00
Wilder street . . . . .	.	.	.	.	.	341 82
Wolcott street . . . . .	.	.	.	.	.	3,881 31
						<u>¹\$261,124 44</u>

¹ Includes \$82,746.91 for Blue Hill and other avenues. Includes \$380 shown in last year's cost, but paid in 1897.

NEW EDGESTONE.

The following tables show the amount of new edgestone set during the year:

CITY PROPER.

Wards 6, 7, 8, 9, 10, 11, 12, 17 and 18, in whole or in part.
(Paving Districts Nos. 8, 9 and 10.)

	Lin. ft.
Dundee street	171
East Lenox street	513
Fullerton street	946
Norway street and Falmouth street	98
Norway street	1,231
St. Botolph street, Follen and Blackwood streets	523
Turner street	1,432
Sundry streets in small quantities	183
	<hr/>
	5,097
	<hr/>

ROXBURY.

Wards 16, 17, 18, 19, 21 and 22, in whole or in part.
(Paving District No. 7.)

	Lin. ft.
Calumet street	125
Columbus avenue	7,598
Forbes street	860
Fellows and Hunneman streets	521
Galena street	876
Georgia street	100
Homestead street	116
Humboldt avenue	375
Ingleside street	312
Lansing street	142
Munroe street	108
Round Hill street	144
Ruthven and Harold streets	502
Shirley street	1,197
Savin street	110
Southwood street	106
Tremont street	205
Sundry streets in small quantities	844
	<hr/>
	14,241
	<hr/>

SOUTH BOSTON.

Wards 13, 14, 15 and 16, in whole or in part. (Paving District No. 1.)

	Lin. ft.
East Third and L streets	142
East Second street	304
East Seventh and M streets	140
East Ninth street	333
East Eighth street	285
Jay street	490
O street	260
Sundry streets in small quantities	357
	<hr/>
	2,311
	<hr/>

EAST BOSTON.

Wards 1 and 2. (Paving District No. 2.)

	Lin. ft.
Condor street	560
Maverick street	559
Putnam and Bremen streets	139
Saratoga street	100
Sundry streets in small quantities	333
	<hr/>
	1,691
	<hr/>

DORCHESTER.

Wards 16, 20 and 24, in whole or in part. (Paving District No. 6.)

	Lin. ft.
Arcadia and Montello streets	170
Ashmont street	547
Athelwold street	1,679
Barrington street	346
Belfort street	364
Bloomfield street	627
Blue Hill avenue and Stanwood street	712
Blue Hill avenue boulevard	3,865
Brookford and Rand streets	647
Centre street	728
Chamberlain street	1,012
Cunningham street	100
Cushing avenue and Jerome street	965
Dalmatia, Dewey, Danube and Dacia streets	309
Edwin street	115
Ellet street	952
	<hr/>

Carried forward,

13,138

	Lin. ft.
<i>Brought forward,</i>	13,138
Gaylord street	937
Geneva avenue	2,524
Greenbrier street	4,700
Lauriat avenue	6,227
Milton avenue	1,309
McLellan street	120
Norfolk street	100
Norton street	159
Park street	359
Quincy street	607
River and Oakdale streets	234
Rosedale street	417
Sagamore street	135
Tonawanda street	1,649
Tucker street	1,427
Washington street	195
Westville and Draper streets	491
Wolcott street	1,373
Sundry streets in small quantities	1,104
	<hr/>
	37,205

WEST ROXBURY.

Wards 22 and 23, in whole or in part. (Paving District No. 5.)

	Lin. ft.
Amory street	698
Ashley street	524
Blue Hill avenue	1,358
Hyde Park avenue	240
Lamartine street	1,522
Tappan street	745
Sundry streets in small quantities	141
	<hr/>
	5,228

BRIGHTON.

Ward 25. (Paving District No. 4.)

	Lin. ft.
Cambridge and Warren streets	629
Linden street	165
Washington street	218
Sundry streets in small quantities	74
	<hr/>
	1,086

RECAPITULATION.

	Lin. ft.
City Proper	5,097
Roxbury	14,241
South Boston	2,311
East Boston	1,691
Dorchester	37,205
West Roxbury	5,228
Brighton	1,086
	<hr/>
	66,859

Edgestones.

New Edgestones. (First setting.) Lin. Ft.

YEAR.	City Proper.	Roxbury.	South Boston.	East Boston.	Dorchester.	West Roxbury.	Brighton.	Charlestown.	Back Bay.	Total.
1891.....	8,236	22,693	11,724	4,131	18,138	4,617	2,032	2,227	.....	73,798
1892.....	9,222	25,506	9,631	11,238	36,859	9,970	9,001	2,804	.....	114,231
1893.....	1,118	14,979	4,372	1,969	10,587	4,795	3,981	.....	.....	41,804
1894.....	1,916	39,324	521	816	6,544	1,568	1,323	694	.....	52,706
1895.....	2,990	17,053	2,097	1,146	15,205	8,319	4,191	668	.....	51,669
1896.....	1,697	20,111	3,855	807	21,367	2,498	8,507	791	41,917	101,550
1897.....	5,097	14,241	2,311	1,691	37,205	5,228	1,086	.....	.....	66,859
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
Totals	30,276	133,907	34,514	21,798	145,905	36,995	30,121	7,184	41,917	502,617

NEW BRICK SIDEWALKS.

The following tables show the number of square yards of brick sidewalks laid during the year :

CITY PROPER.

*Wards 6, 7, 8, 9, 10, 11, 12, 17 and 18, in whole or in part.
(Paving Districts Nos. 8 and 10.)*

	Sq. Yds.
Appleton street	3,094
Boylston street	1,801
Camden street	510
Church street	404
Concord square	908

Carried forward,

6,717

	Sq. Yds.
<i>Brought forward,</i>	6,717
Cortes street	843
Dartmouth street	223
Dix place	208
Dundee street	1,034
Eaton street	205
Falmouth street	1,088
Fruit street	371
Huntington avenue	151
Isabella street	1,068
Massachusetts avenue	2,319
Myrtle street	328
Newbury street	146
Norway street	213
North Grove street	577
Paul street	346
Pelham street	351
Unity street	221
West Newton street	802
Sundry streets in small quantities	76
	<hr/>
	17,287

ROXBURY.

*Wards 16, 17, 18, 19, 21 and 22, in whole or in part.
(Paving District No. 7.)*

	Sq. Yds.
Arcadia street	496
Atherton and Amory streets	920
Ball street	702
Cabot street	388
Cedar street	547
Cliff street	224
Culvert street	93
Cunard street	116
Dewey street	216
Galena street	353
Glenwood street	430
Heath street	110
Humboldt avenue	224
Longwood avenue	210
Magazine street	688
Maple street	790
Marcella street	171
Massachusetts avenue	2,045
Mount Pleasant avenue	1,881
Pontine street	107
Riverside street	215

Carried forward,

10,926

	Sq. Yds.
<i>Brought forward,</i>	10,926
Ruggles street	719
Sarsfield street	428
Savin street	328
Schuyler street	173
Station street	497
Tremont street	1,588
Walpole street	281
Warren street	1,438
Washington street	148
Wenonah street	882
Westminster street	160
Weston street	365
Williams street	1,118
Sundry streets in small quantities	2,545
	<hr/>
	21,596
	<hr/>

SOUTH BOSTON.

*Wards 13, 14, 15 and 16, in whole or in part. (Paving
District No. 1.)*

	Sq. Yds.
B street	444
Baxter street	1,419
Beckler avenue	345
East Broadway	4,628
East Second street	425
East Seventh street	575
East Third street	1,153
Gates street	1,616
K street	428
M street	474
Mereer street	530
Mitchell street	160
N street	509
Sundry streets in small quantities	754
	<hr/>
	13,460
	<hr/>

EAST BOSTON.

Wards 1 and 2. (Paving District No. 2.)

	Sq. Yds.
Border street	7,744
Central square	166
Condor street	716
	<hr/>
<i>Carried forward,</i>	8,626

	Sq. Yds.
<i>Brought forward,</i>	8,626
Everett street	3,096
London street	1,074
Maverick street	147
Marginal street	203
Meridian street	175
Moore street	171
Orleans street	215
Porter street	1,620
Prescott street	135
Saratoga street	278
Sundry streets in small quantities	385
	<hr/>
	16,125

DORCHESTER.

Wards 16, 20 and 24, in whole or in part. (Paving District No. 6.)

	Sq. Yds.
Alexander street	898
Ashmont street	156
Belfort street	216
Carruth street	178
Dorchester avenue	106
East street	170
Hartland and Sydney streets	762
Milton avenue	157
Stoughton street	124
Sundry streets in small quantities	228
	<hr/>
	2,995

WEST ROXBURY.

Wards 22 and 23, in whole or in part. (Paving District No. 5.)

	Sq. Yds.
Centre street	982
Conway street	157
Grove street	114
Hyde Park avenue	122
Mount Vernon street	264
Sundry streets in small quantities	216
	<hr/>
	1,855

CHARLESTOWN.

Wards 3, 4 and 5. (Paving District No. 3.)

	Sq. Yds.
Adams street	855
Alford street	394
	<hr/>
<i>Carried forward,</i>	1,249

STREET DEPARTMENT — PAVING DIVISION. 197

	Sq. Yds.
<i>Brought forward,</i>	1,249
Arlington avenue	108
Auburn street	830
Baldwin street	1,296
City square	530
Common street	905
Concord street	684
Decatur street	636
Devens street	309
Dorrance street	611
Everett street	3,096
Lexington street	1,674
Maverick street	72
Mead street	700
Monument street	647
Vine, Tufts, Moulton and Corey streets	820
Sundry streets in small quantities	287
	<hr/>
	14,454
	<hr/>

BRIGHTON.

Ward 25. (Paving District No. 4.)

	Sq. Yds.
Beacon street	837
Cambridge street	396
Foster street	217
Warren street	288
Western avenue	255
Sundry streets in small quantities	135
	<hr/>
	2,128
	<hr/>

RECAPITULATION.

	Sq. Yds.
City proper	17,287
Roxbury	21,596
South Boston	13,460
East Boston	16,125
Dorchester	2,995
West Roxbury	1,855
Charlestown	14,454
Brighton	2,128
	<hr/>
	89,900
	<hr/>

New Brick Sidewalks.*First laying. Square yards.*

YEAR.	City Proper.	Roxbury.	South Boston.	East Boston.	Dorchester.	West Roxbury.	Brighton.	Charlestown.	Back Bay.	Total.
1891.....	3,881	9,098	3,628	2,176	1,478	967	377	120	.....	21,725
1892.....	10,423	20,231	4,484	12,847	10,462	2,905	1,068	3,451	.....	65,871
1893.....	964	5,912	751	2,197	2,412	350	.....	175	.....	12,761
1894	1,537	11,533	2,706	2,115	453	834	.....	437	.....	19,615
1895.....	4,103	6,246	1,946	1,151	2,146	1,734	2,908	408	.....	20,632
1896.....	1,044	15,897	2,314	381	2,616	542	.....	288	5,073	28,155
1897.....	17,287	21,596	13,460	16,125	2,995	1,855	2,128	14,454	.....	89,900
Totals	39,239	90,513	29,279	36,992	22,562	9,187	6,481	19,333	5,073	258,659

**PROPERTY IN CHARGE OF THE DEPUTY
SUPERINTENDENT OF PAVING DIVISION.**

Buildings and wharf on Albany street, opposite Sharon street. The building is of brick and wood, and covers some 8,000 square feet of land, and is divided into a shed for storage, blacksmith's and carpenter's shops, tool-room and stable. The total contents of the lot, including wharf and building, are 63,180 square feet.

Fort Hill wharf, containing 21,054 square feet, placed in charge of the Paving Department May 18, 1874, to be used for the landing and storage of paving-blocks and gravel until such time as said wharf shall be wanted for the extension of Oliver street. The greater part of said wharf is occupied by the Sanitary Division as a garbage-dump, and the building thereon is leased to a tenant.

Lot on Chelsea, Marion and Paris streets, East Boston, containing 43,550 square feet. Part of this lot used by the Sewer Division.

Ledge lot on Washington street, corner Dimock street, Roxbury, containing 134,671 square feet. Upon this lot are buildings containing a steam-engine and stone-crusher.

Highland-street stable lot. Upon this lot is a large brick stable, erected in 1873, and occupied by the Sanitary and Paving Divisions; also a brick building used as a blacksmith's shop, and a shed for the storage of tools, etc.

Ledge lot on Codman street, Dorchester, containing 299,000 square feet, was purchased in 1870. Upon this lot is a shed

containing a steam-engine and stone-crusher; also a stable and tool-house.

On the Almshouse lot, Hancock street, Dorchester, there are two stables; also a shed and tool-house.

Ledge lot on Magnolia street and Bird place, Dorchester, containing 81,068 square feet. This lot was purchased by the town of Dorchester in 1867.

Downer-avenue lot, Dorchester, containing 35,300 square feet.

On Child street, West Roxbury, a lot of land containing 43,024 square feet, upon which are a stable and shed, blacksmith's shop, and tool-house. ve,

Gravel lot in the town of Milton, on Brush Hill road, containing 64,523 square feet, hired by the town of Dorchester for nine hundred and ninety-nine years.

Gravel lot on Morton street, Ward 23, containing about one-third of an acre, purchased by the town of West Roxbury in 1870, used for storage purposes.

Ledge and gravel lot, rear of Union street, containing about 37,000 square feet, purchased by the town of Brighton. This lot is at present leased.

Ledge lot on Chestnut Hill avenue, Brighton, containing about thirteen acres, upon which are an office, engine-house, stable and crusher plant.

On Medford street, Charlestown, a wharf lot, foot of Elm street, containing 8,000 feet, upon which are sheds, office, stable, etc.

In South Boston, corner of H and Ninth streets, stable, carriage-house, shed, tool-house and office on leased land.

On Hereford street, a yard with shed, tool-house and office.

Wharf, known as Atkin's wharf, 521 Commercial street, purchased in 1887 for \$24,000, containing 22,553 square feet, having on it an office and stable.

On Centre street, West Roxbury, buildings containing engines, stone-crushers, tools, etc., on leased land.

On Rosseter street, Dorchester, buildings containing engines, stone-crushers, tools, etc., on leased land.

On Heath street, Roxbury, buildings containing engines, stone-crushers, tools, etc., on leased land.

On Revere street, wharf for storing paving-blocks, etc.

Wharf on Chelsea street, East Boston, containing 61,000 square feet, with buildings purchased in 1897 for \$15,000.

Streets Laid Out or Extended.

DATE.	Street.	Location.	Length, Lin. ft.
Jan. 25,	Astor st.	From Massachusetts ave. to Parker st.	872.16
Aug. 31,	Beacham st. ...	To Main st.	162.42
Sept. 23,	Belmore terrace.....	From Boylston st. to Boylston terrace.....	272.00
Sept. 10,	Belvidere st. ...	From Dalton st. to W. Newton st.	458.39
April 27,	Bayard st.	From North Harvard st. to Kenneth st.	627.83
June 21,	Burt st.	(Formerly Burt ave.) from Ashmont st. to Washington st.	1,372.00
July 8,	Bloomfield st.	From Geneva ave. to Greenbrier st.	1,554.00
June 1,	Bushnell st. ...	From Beale st. to Weyanoke st. and over private way known as Randolph terrace.....	479.28
Aug. 31,	Bernard st.	From Harvard st. to Talbot ave..	1,406.00
Nov. 22,	Bentley st.	From Henshaw st. to Sparhawk st.	506.40
Dec. 11,	Braemore road	(Formerly Berwick road) from Commonwealth ave. to Chiswick road.....	425.00
Dec. 17,	Brooks st.	From Houghton st. to North Beacon st.	692.00
Dec. 18,	Barrington st.	From Bowdoin st. to Homes ave.	945.41
May 13,	Covington st. .	(Formerly Atlantic st.) from Thomas pk. to East Eighth st.	265.49
Nov. 5,	Chamblet st. ...	From Magnolia st. to Hartford st.	445.55
July 22,	Charlesview st.	(Formerly Bigelow st.) from another part of said Bigelow st. to Newton st.	363.00
Aug. 31,	Columbia road	From Franklin Park to Marine Park, Dorchester and South Boston.....	8,635 00
Nov. 11,	Carlos st.	From Lauriat ave. to Chapman ave.....	300.00
Dec. 11,	Colliston road	(Formerly Windsor road) Kilsyth road to Lanark road.....	350.00
April 8,	Dorchester av.	Over and including Federal-st. bridge and to Summer st., extended	1,970.00
Oct. 8,	Dromey st.	From Judson st. to Brookford st.	213.00
Jan. 27,	Elmira st.	From George st. to Market st. ...	1,040.31
April 14,	Fairmount st.	From Washington st. to Morton st.	2,660.99
July 8,	Greenbrier st.	From Bloomfield st. to Park st..	845.69
Oct. 19,	Hardwick st. .	(Formerly High st.) from Bigelow st. to Dunboy st.	725.54
Dec. 18,	Harold st.	From Munroe st. to Walnut ave..	758.04
Oct. 6,	Ipswich st.	From Boylston st. across Back Bay Fens to Boylston st.	2,361.22
Oct. 28,	Idaho st.	From River st.	852.70
Oct. 1,	Jay st.	From East Fourth st. to East Fifth st.	250.14
Dec. 11,	Kilsyth road. .	From Lanark road to the Brookline boundary line.....	1,360.00
		<i>Carried forward</i>	<i>33,169.56</i>

Streets Laid Out or Extended.—*Concluded.*

DATE.	Street.	Location.	Length, Lin. ft.
		<i>Brought forward</i>	33,169.56
Dec. 11,	Kinross road..	From Commonwealth ave. to Sutherland road.....	570.00
Aug. 19,	Leroy st.....	From Geneva ave. to Ditson st..	719.00
Jan. 13,	Locust st.....	From Dorchester ave. to Buttonwood st.....	240.00
Nov. 17,	Leedsville st..	(Formerly Leeds st.) from Dorchester ave. to Adams st.....	572.00
Nov. 19,	Lonsdale st...	From Dorchester ave. to Adams st.	1,626.00
Dec. 11,	Lothian road..	(Formerly Fenwick road) from Strathmore road to Chiswick road.....	345.00
Dec. 11,	Lanark road..	From Kinross road to Brookline boundary line.....	1,388.30
Dec. 16,	Maryland st...	(Formerly Leeds st.) from Savin Hill ave. to Bay st.	478.72
Feb. 1,	Marginal st...	South-east from Jeffries st.	467.00
July 30,	Myrick st.....	From Franklin st. to beyond Bayard st.....	299.15
Aug. 6,	Malvern st....	From Brighton ave. to Ashford st.	702.29
Nov. 19,	Newton st....	From present termination of street as a private way to Charlesview st.....	270.79
Nov. 23,	Nightingale st.	From Talbot ave. to Bernard st..	1,461.97
Oct. 26,	Oakley st.....	From Bowdoin st. to Geneva ave.	823.00
Jan. 22,	Page st.....	From McLellan st. to Glenway st.	390.67
Mar. 12,	Pequot st....	From Calumet st. to Wait st....	144.00
Aug. 25,	Peverell st....	From Sawyer ave. to Salcombe st.	487.00
July 15,	Queensberry st	From Audubon road to another part of said Audubon road.	1,737.74
Feb. 6,	Robin Hood st.	From Magnolia st. to Hartford st.	798.54
Oct. 8,	Rand st.....	From Julian st. to Brookford st.	321.70
Aug. 6,	Rosseter st...	From Bullard st. to Bowdoin ave.	850.00
April 8,	Summer st....	From Purchase st. to the harbor commissioners' line in Fort Point channel.....	845.33
April 28,	Surrey st.....	From Parsons st. to Market st..	555.19
Oct. 26,	St. Stephen st.	To Bryant st.....	803.25
Dec. 11,	Selkirk road..	From Chiswick road to Kilsyth road.....	690 00
Dec. 11,	Sidlaw road...	From Commonwealth ave. to Chiswick road.....	326.00
Nov. 30,	St. Rose st....	(Formerly Johnston) from Jamaica st.	594.54
July 8,	Tonawanda st.	From Geneva ave. to Greenbrier st.....	1,917.00
June 1,	Van Winkle st.	From Carruth st. to Randolph terrace.....	405.96
June 1,	Wessex st....	From Codman st. to Weyanoke st.	374.52
Aug. 31,	Waterlow st...	From Harvard st. to Harvard st.	545.00
Nov. 30,	Woodlawn st..	From Hyde Park ave. to Forest Hills Cemetery.....	1,061.74
Jan. 31,	Wensley st. ...	From Heath st. to Bickford ave..	713.00
Nov. 27,	WestSelden st.	From Morton st.....	3,411.00
			60,104.96

Streets Ordered to be Constructed.

DATE.	Street.	Location.
Jan. 25,	Astor st.....	From Massachusetts ave. to Parker st., Back Bay.
Dec. 18,	Barrington st....	From Bowdoin st. to Homes ave., Dor.
Sept. 23,	Belmore terrace..	From Boylston st. to Boylston ter., J. P.
Sept. 10,	Belvidere st.....	From Dalton st. to West Newton st., Back Bay.
Aug. 31,	Bernard st.....	From Harvard st. to Talbot ave., Dor.
July 8,	Bloomfield st....	From Geneva ave. to Greenbrier st., Dor.
June 21,	Burt st.....	From Ashmont st. to Morton st., Dor.
June 1,	Bushnell st.....	From Beale st. to Weyanoke st., and over a private way known as Randolph ter., Dorchester.
Nov. 11,	Carlos st.....	From Lauriat ave. to Chapman ave., Dor.
Nov. 5,	Chamblet st.....	From Magnolia st. to Hartford st., Dor.
July 22,	Charlesview st., formerly Bigelow st.....	From another part of said Bigelow st. to Newton st., Brighton.
Aug. 5,	Chiswick road...	From Englewood ave. to Chestnut Hill ave., Brighton.
Aug. 31,	Columbia road...	From Franklin Park to Marine Park, Dorchester and South Boston.
April 14,	Fairmount st....	From Washington st. to Morton st., Dor.
July 8,	Greenbrier st....	From Bloomfield st. to Park st., Dor.
Nov. 19,	Hardwick st....	From Bigelow st. to Dunboy st., Bri.
Dec. 18,	Harold st.....	From Munroe st. to Walnut ave., Rox.
Oct. 28,	Idaho st.....	From River st., Dorchester.
Oct. 6,	Ipswich st.....	From Boylston road, across the Fens to Boylston st., Back Bay.
Nov. 17,	Leedsville st....	From Dorchester ave. to Adams st., Dor.
Aug. 19,	Leroy st.....	From Geneva ave. to Ditson st., Dor.
Nov. 10,	Lonsdale st.....	From Dorchester ave. to Adams st., Dor.
Dec. 16,	Maryland st.....	From Savin Hill ave. to Bay st., Dor.
Aug. 6,	Malvern st.....	From Brighton ave. to Ashford st., Bri.
Nov. 23,	Nightingale st...	From Talbot ave. to Bernard st., Dor.
Oct. 26,	Oakley st.....	From Bowdoin st. to Geneva ave., Dor.
Aug. 25,	Peverell st.....	From Sawyer ave. to Salcombe st., Dor.
July 15,	Queensberry st..	From Audubon road to another part of said road, Back Bay.
Aug. 6,	Rosseter st.....	From Bullard st. to Bowdoin ave., Dor.
Oct. 26,	St. Stephen st...	To Bryant st., Back Bay.
July 8,	Tonawanda st....	From Geneva ave. to Greenbrier st., Dor.
Nov. 27,	West Selden st...	From Morton st., Dorchester.
Nov. 30,	Woodlawn st....	From Hyde Park ave. to Forest Hills Cemetery.

Streets Widened and Relocated.

STREET.	Location.	Date.	Widening.	Discontinuance.
Adams st.	From Parkman st. to Park st., westerly side.....	Aug. 25,	8,282 square feet.	
Alford st.	From Main st. to Mystic river	June 9,	21,210 "	
Beacon st.	From Arlington st. to Massachusetts ave.	Dec. 14,	7,673 "	
Brooks st.	Between Holton st. and North Beacon st.	Dec. 17,	12,554 "	
Cambridge st.	Corner of Warren st.	April 2,	8,129 "	
Cove st.	From Kneeland st. to Summer st. extended	April 8,	62,506 "	
Columbia road	From Blue Hill ave. to Edward Everett sq.	Aug. 31,	573,086 "	
Congress st.	From Atlantic ave. to Fort Point channel	May 13,	11,607 "	
Centre st.	From Highland st. to Penryth st.	Nov. 29,	.....	990 square feet.
Franklin st.	From Main st. to High st.	Feb. 1,	.....	273 "
Freeport st.	Between Park and Capen sts.	Oct. 8,	1,539 square feet.	
Green st.	Between Main st. and High st.	Nov. 24,	2,227 "	
Harold st.	At Hutchings st. and Seaver st.	Dec. 18,	1,777 "	
Menlo st.	Near Sparhawk st.	April 9,	38 "	55 "
Old road	South of its intersection of Glenway st.	March 15,	.....	23,472 "
River st.	Near Hyde Park line, on northerly side.	Aug. 19,	275.5 square feet.	80 "
Summer st.	From Purchase st. to Atlantic ave.	April 8,	4,177 "	
School st.	At corner of Athelwold st.	Nov. 29,	548 "	
Tremont st.	And Boylston st. at their junction.	April 14,	4 "	4 "
Weld st.	From Church st. to Maple st.	Jan. 16,	55,438 "	
Wait st.	From Huntington ave. to Hillside st.	Sept. 14,	6,862 "	
Washington st.	And Bartlett st., at their junction	Nov. 23,	186 "	
Whitney st.	Between Smith st. and Conant st. ..	Dec. 14,	1,778 "	

The records of the Street Commissioners for the year 1897 show the following results:

Streets laid out or extended	60,104.96 linear feet.
Streets widened and relocated	779,896.5 square feet.
Streets discontinued	24,874 square feet.
Increase in mileage	11.38 miles.

Permits for excavating have been issued from this office during the year ending January 31, 1898, as follows:

STREET OPENINGS.

	Permits.	Feet.
American Telegraph Co.	4	912
Boston Electric Light Co.	629	44,410
Boston Fire Department	9	4,801
Boston Gaslight Co.	556	24,679
Boston & Albany R.R. Co.	1	125
Boston Lamp Department	227	4,315
Boston Low Tension Wire Association	20	2,390
Boston & Maine R.R. Co.	30	450
Boston Park Department	12	500
Boston Street Department, Sewer Division	234	48,470
Boston Water Department, Eastern Division	3,435	208,390
Boston Water Department, Income Division	341	1,463
Brookline Gaslight Co.	405	48,329
Boston, Revere Beach & Lynn R.R.	1	100
Boston Elevated Railway Co.	359	182,082
Bay State Gas Co.	2	1,000
Charlestown Gaslight Co.	94	6,839
Church Green L. & P. Co.	7	1,015
Dorchester Gaslight Co.	533	59,148
Department Public Grounds	6	150
Edison Electric Illuminating Co.	651	81,975
East Boston Gaslight Co.	126	8,701
Fitchburg R.R. Co.	16	375
Jamaica Plain Gaslight Co.	205	15,568
Lynn & Boston R.R. Co.	3	7,300
Metropolitan Sewerage Commission	4	220
Metropolitan Water Commission	4	10,713
Metropolitan Construction Co.	11	1,200
New England Telephone & Telegraph Co.	341	55,271
N. Y., N. H. & H. R.R. Co.	16	150
N. Y. & N. E. R.R. Co.	2	100
Norfolk Suburban Street Railway Co.	3	450
National Contracting Co.	2	500
Postal Telegraph & Cable Co.	4	300
Police Department	40	15,623
Quincy Market Cold Storage Co.	65	3,998
Roxbury Gaslight Co.	605	22,887
South Boston Gaslight Co.	278	18,249
Standard Oil Co.	16	500
Suburban Light and Power Co.	30	50
Snow, F. A. (Boston Pneumatic Transit Co.)	6	3,000
Union Freight R.R. Co.	5	950
Western Union Telegraph Co.	28	13,233
West Roxbury & Roslindale Street Railway Co.	6	10,730
Water Department, Engineering Division	5	175
Miscellaneous	3,760	206,319
Emergency permits	880	8,800
Total	14,017	1,126,905

Total number of feet opened was 1,126,905 feet.

Making the total length of openings about 213.4 miles.

Permits other than for opening streets have been issued as follows :

Advertising, by men wearing hat and coat lettered	30
Clearing snow from roof	129
Driving cattle	11
Distributing sand	9
Erecting, repairing and removing awnings	4,312
Erecting and repairing buildings	4,707
Feeding horses on the street	421
Moving buildings	42
Loading and unloading goods	483
Pedlers, two different classes	641
Placing signs flat on buildings	1,656
Raising and lowering safes, machinery, etc.	524
Special, for various purposes	196
Permit extensions	783
Selling from areas	51
Selling from buildings	775
Special for June 17	103

Total	<u>14,873</u>
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Total number permits for street openings . . .	14,017
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Total number permits for all other purposes . . .	14,873
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Grand total	<u>28,890</u>
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Three hundred postal cards and 1,500 notices have been sent to storekeepers and householders in connection with selling from windows, etc.

During the year there have been 14,683 notices sent the various foremen, directing them to repair defects in the public streets, which have been reported by the police and others; also 5,262 notices to private parties to repair work improperly done when permits had been granted to open the streets, and to owners of estates where coal-holes and sidewalk lights were defective.

There have been 452 notices sent to departments, corporations and others regarding proposed street improvements.

There have been 472 new bonds filed during the year.

There have been 125 claims investigated, and about 50 notices sent to owners and other parties.

Cash to the amount of \$12,798.50 for permits has been received and deposited with the City Collector.

There is \$7,519.50 due for permits at this date from corporations and departments.

Street numbers have been assigned to the estates in the different districts as follows :

City proper	3 whole, and 5 parts of streets.
Dorchester District	9 whole, and 239 parts of streets.
Roxbury District	3 whole, and 67 parts of streets.

West Roxbury . . .	4 whole, and 120 parts of streets.
Brighton District . .	2 whole, and 46 parts of streets.
South Boston District .	29 parts of streets.
Charlestown District . .	1 whole, and 17 parts of streets.
East Boston District . .	21 parts of streets.

Total 22 whole, and 596 parts of streets.

About 5,500 figures were required for this work.

Plans of seventeen streets with numbers have been drawn ready for assignment when called for.

APPENDIX D.

REPORT OF THE DEPUTY SUPERINTENDENT OF
THE SANITARY DIVISION.

ROOMS 917-920 TREMONT BUILDING,
BOSTON, February 1, 1898.

BENJ. W. WELLS, Esq.,

Superintendent of Streets :

DEAR SIR : I hereby respectfully submit the annual report of the expenditures, income and operation of the Sanitary Division of the Street Department for the financial year ending January 31, 1898.

Respectfully submitted,

PATRICK O'SHEA,

Deputy Superintendent.

The work of the Sanitary Division includes the removal of house-offal and the removal of house-dirt and ashes, accumulated from the burning of materials for heating buildings and for domestic purposes.

The following table shows the amounts expended for the maintenance of the Sanitary Division for the past five (5) years :

1893	\$481,300 63
1894	467,459 02
1895	432,778 52
1896	476,807 34
1897	492,670 56

**Comparative Table, showing Net Cost of Maintenance of the
Sanitary Division to the City of Boston.**

	Expended.	Income.	Net Cost to City.
1893	\$481,300 63	\$32,056 27	\$449,244 36
1894	467,459 02	42,320 55	425,638 47
1895	432,778 52	42,985 53	389,792 99
1896	477,241 54	36,146 77	441,094 77
1897	492,670 56	34,430 48	458,240 08

OFFAL.

The method of disposing of offal and garbage during 1897 was, as in preceding years, to sell the material to farmers in neighboring towns, the portion not disposed of in this manner being towed to

sea. Out of 56,783 loads collected during the past year in the city and suburbs, 43,207 loads, or 76 per cent., was fed to hogs, and 13,576 loads, or 24 per cent., carried in dumping-boats to the sea.

On April 1, 1897, the dumping and disposal of offal at Highland street, Roxbury, was abandoned, at the solicitation of the Board of Health, the Institutions Commissioner, and by vote of the City Council. By this action it has, to a certain extent, increased the cost of collecting offal in Roxbury and a part of West Roxbury, and decreased the revenue to the city from the sale of the material.

A more sanitary way of disposing of the city offal has long been under consideration, and, as the result of investigation made by a committee appointed by the city government, a contract for a term of ten years was made with the New England Sanitary Product Company, in January, 1898, by the provisions of which nearly 77 per cent. of the collection is conveyed to an isolated point within the city limits and treated by a method known as the Improved Arnold process, which disposes of it in an unobjectionable manner. Provision was also made for extending the scope of the contract so as to include the outlying sections of the city, when advisable.

During the year twenty-two new steel-bodied dumping wagons have replaced the same number of wooden wagons which were unfit for further service, and it is intended to substitute them generally for the wooden wagons, as they are much better adapted for the collection of offal.

ASHES.

Of the 389,098 loads of ashes collected during the past year, 243,556 loads, or 63 per cent., were deposited on low lands in the outlying districts of the city; 100,905 loads, or 26 per cent., were towed to sea, and the balance, 44,637 loads, or 11 per cent., were collected by contractors and used on low lands for filling.

The material designated "ashes" includes, besides the material itself, the general refuse of the city, such as store-sweepings, papers, and rubbish of all kinds, and our method of disposing of it has many objectionable features. Some of the refuse which is towed to sea is of such light composition that it often floats back to the neighboring beaches, and is the cause of frequent complaint from the residents. There has also been complaint from dumps unavoidably located near residential sections, owing to papers and other light refuse being blown about by the winds.

It is the purpose of this division to obviate this difficulty, at least in a measure, by the erection, this year, of one or more furnaces, suitable for the burning of such combustible waste, arrangements for same being already in progress, and it is estimated that material, having a commercial value, which can be culled from the refuse, will cover the entire cost of the operation of the proposed furnaces. In view of this plan, householders in one section of the city were requested, nearly six month ago, to keep papers and other refuse of a combustible nature in a separate receptacle, or to tie the same in bundles, to facilitate their removal. The system has worked satisfactorily where it has been tried, and it will be further extended.

Owing to the bulky nature of the material termed ashes, it was deemed advisable to enlarge the ash-carts by the addition of boards on the sides and ends, thereby increasing their capacity by about one-third. Some objection was made to this change by employees

in this division, but the introduction of a scales at one of the larger dumps soon demonstrated the utility of the measure, the average weight of several thousand loads collected in the enlarged carts being only 1,500 pounds. If the separation of papers and light refuse from ashes can be successfully compassed throughout the city, a suitable cart for collecting same will be introduced.

A change, productive of good results, was made in the collection of store-sweepings in what is known as the business section of the city, the occupants of stores, etc., being requested, by the distribution of printed notices, to put out all waste material previous to 7.30 A.M., so that the collectors could remove it while the streets were passable, much annoyance and inconvenience which had previously existed being in a large measure prevented.

I would again call your attention to the dilapidated condition of the stables in charge of this division, and earnestly recommend that a special appropriation be made for their renovation.

Several complaints have been received concerning the failure of the division to promptly remove offal and ashes; investigation of these has usually shown that either offal has not been properly separated from ashes or other refuse, as is insisted upon by the department, or else that the receptacles were kept in some inaccessible place, or were larger than the ordinances provide and the regulations of the department permit.

In order that householders might understand these regulations and that the work be not unnecessarily delayed, the following circular was issued:

It will be noted that the circular also requires a third separation, viz.: that all refuse other than household ashes or offal be placed in a third receptacle. This was done in anticipation of an arrangement for caring for the combustible waste separate from the heavy ash by incineration.

Notice to Housekeepers.

On and after Monday, Oct. 11, 1897, nothing but GARBAGE, FOOD CANS and FOOD BOTTLES must be put into the garbage receptacles, and nothing but DUST and ASHES must be put into the receptacles for ashes.

ALL PAPERS, LIGHT WASTE and other GENERAL REFUSE must be placed in a third receptacle, or, if too bulky, must be tied in bundles to prevent their being scattered in handling, and MUST BE PROTECTED FROM THE WEATHER until collected by the proper authorities.

GENERAL REFUSE includes the following:

Paper,	Excelsior,	Old shoes and rubbers,
Rubbish,	Straw,	Leather and rubber scraps,
Bottles,	Mattresses,	Carpets,
Rags,	Old clothes,	Broken glass, etc.,
Tin cans,	Pasteboard boxes.	

The Superintendent of Streets of the City of Boston is required to remove ashes and OTHER REFUSE, and is governed by the following provisions of law:

Acts of 1892, Chapter 419, Section 112. — All receptacles for ashes, waste and other substances, liable, by spontaneous combustion or otherwise, to cause a fire, shall be made of incombustible material, satisfactory to the inspector. Every building used as a tenement or lodging house shall have outside, and appurtenant to it, a suitable space, satisfactory to the inspector, for the temporary deposit of garbage and other refuse matter.

Revised Ordinances of 1892, Chapter 43, Section 14. — No person shall keep in his house, or on his land, any house offal, unless the same is placed in a suitable vessel, free from ashes and other refuse matter, and so placed as to be easily removed.

Revised Ordinances of 1892, Chapter 43, Section 17. — No person shall place or keep in or near any building, ashes or cinders in such a manner as to be liable to cause fire, nor mix them with other substances, nor place or keep them except in metallic vessels, so placed as to be easily removed.

The Superintendent of Streets, therefore, calls attention to the necessity of keeping **ASHES and OTHER REFUSE MATTER** as required by law, and gives notice that **NO REFUSE WILL BE REMOVED** unless protected from the weather, and so placed as to be easily removed, and kept as follows:

1. **ASHES** must be kept free from all other refuse matter and in metallic vessels.

2. **HOUSE OFFAL** or garbage must be kept free from all other refuse matter (except **FOOD CANS** and **FOOD BOTTLES**), and in suitable vessels.

3. **ALL OTHER REFUSE** must be kept free from ashes and garbage and in suitable vessels, or in bundles firmly fastened, so as to prevent the rubbish from being scattered in handling.

BENJAMIN W. WELLS,
Superintendent of Streets.

PATRICK O'SHEA,

Deputy Superintendent, Sanitary Division.

Also the annual spring cleaning of the entire city was undertaken with good results, and the following notice issued to the public:

CITY OF BOSTON.

Notice to Housekeepers and Tenants.

Housekeepers and other occupants of dwellings are requested to place their house and cellar dirt and sweepings in the streets opposite their premises between the hours of sunrise and 2 o'clock P.M. of the following days: Monday, May 3; Tuesday, May 4; Wednesday, May 5; Thursday, May 6; Friday, May 7, when they will be removed by the city carts. After which times no person will be allowed to place any dirt, ashes, filth or rubbish of any kind whatever in any of the ways, streets or places of the city, without a permit from the Superintendent of Streets.

Dirt of any kind not to be placed in the streets on Saturday.

BENJAMIN W. WELLS,
Superintendent of Streets.

CITY HALL, BOSTON, 1897.

NOTE. — This circular, printed in English, Hebrew and Italian, was posted in prominent places by the regular bill-posting companies, and for a week was also carried on the sides of all the wagons and carts owned by this division.

Special Notice.

On and after above-named days, ashes, etc., in order to be removed by city carts, must be placed in receptacles not larger than an ordinary flour barrel, and in a position on a level with the grade of the adjoining sidewalk.

Vault filth, offal, bricks and mortar, gravel and earth, garden rakings and shrubbery are not included in the above, and will not be removed by the city if placed in the streets.

During the year the wheelwright, blacksmith, paint, harness and horseshoeing shops of this division at the South Yard were continued with competent mechanics upon the same basis as any journeyman shop in the city; the repairs and some constructive work of this and other divisions has been done cheaply and well. A statement of the work performed will be found on pages 225 to 236.

The following table shows the number of loads of house offal collected and removed in the last five (5) years:

<i>Amount of House Offal Removed.</i>										No. of Loads.
Year.	.	.	.	.	.	.	.	.	.
1893	.	.	.	.	.	.	.	.	.	51,415
1894	.	.	.	.	.	.	.	.	.	50,637
1895	.	.	.	.	.	.	.	.	.	51,327
1896	.	.	.	.	.	.	.	.	.	56,402
1897	.	.	.	.	.	.	.	.	.	56,783

Each load of offal is equivalent to fifty-six (56) cubic feet, and has a maximum weight of one and a quarter ($1\frac{1}{4}$) tons at certain seasons of the year.

Of the amount, 56,783 loads, collected during the year 1897, 3,720 were collected by the East Boston contractor, 1,520 by the Brighton contractor, 4,712 by the Dorchester contractor, and 760 loads by the West Roxbury contractor, leaving 46,071 loads collected by city teams.

The collection of this material is attended to in winter by an average regular force of 75 city offal carts and 171 men, and on contract work 17 offal carts and 34 men, making a total of 92 offal carts and 205 men. At different times, and especially in summer, an approximate extra force of 21 teams and 42 men are employed.

The disposal has been made during the year in the following manner: The offal from the markets and the offal that is decayed is put on board a scow and towed to sea; the offal of Charlestown is taken to the yard at Malden bridge and there disposed of to farmers; the offal of East Boston is collected by a contractor and is removed to Revere; the offal of the city proper, Roxbury, a part of West Roxbury and South Boston is conveyed to the yard at the South End and disposed of to farmers, who remove it daily; a portion of the collections of West Roxbury is collected by contract and removed to Needham; the offal of Brighton is collected by contract and disposed of outside of the district; the offal in Dorchester is collected by a contractor and sold to farmers.

Collection and Disposal of Offal.

Year.	Total amount collected.	Amount sold.	Amount dumped on scow and towed to sea or wasted.	Per cent. wasted to total collection.	Amount of receipts from sales.
1893 ¹	46,276 loads.	30,824 loads.	15,363 loads.	30 per cent.	\$20,790 03
1894 ²	42,082 "	37,057 "	5,025 "	12 "	26,262 40
1895 ³	41,480 "	36,620 "	4,860 "	12 "	27,374 47
1896 ⁴	45,844 "	35,549 "	10,295 "	22 "	21,187 76
1897 ⁵	46,071 "	32,495 "	13,576 "	29 "	17,416 75

¹Twelve months. Above table does not include contracts in East Boston and Brighton.

²In East Boston, 3,720 loads; Brighton, 1,539 loads; Dorchester, 3,296 loads,—total, 8,555 loads,—collected during 1894 are not included in above table. For 1891 and 1892, East Boston and Brighton were estimated at 5,100 loads.

³In East Boston, 3,732 loads; Brighton, 1,419 loads; Dorchester, 4,179 loads; West Roxbury, 517 loads—total, 9,847 loads,—collected during 1895 not included in above table.

⁴In East Boston, 3,786 loads; Brighton, 1,362 loads; Dorchester, 4,707 loads; West Roxbury, 703 loads—total, 10,558 loads,—collected during 1896 not included in above table.

⁵In East Boston, 3,720 loads; Brighton, 1,520 loads; Dorchester, 4,712 loads; West Roxbury, 760 loads—total, 10,712 loads,—collected during 1897 not included in above table.

The following table shows the full force engaged in the collection of offal alone throughout the entire city:

The Force Employed.

CITY FORCE.	No.	Hired Teams.	CONTRACTORS' TEAMS.				Total.
			East Boston.	Brighton.	Dorchester.	West Roxbury.	
Sub-foremen	3	.....	1	.....	.....	1	5
Inspectors	8	.....	.....	1	1	.....	10
Offal clerks	1	.....	.....	.....	.....	.....	1
Teamsters	69	6	6	2	8	1	92
Helpers	69	6	6	2	8	1	92
Dumpers.....	5	.....	.....	.....	.....	.....	5
Totals	155	12	13	5	17	3	205

REMOVAL OF ASHES AND HOUSE DIRT.

The removal of ashes, house and store dirt has been attended to during the year by a minimum force of 330 men and 145 city carts, also by five carts with an East Boston contractor, seven carts with Dorchester contractors, and two carts with a West Roxbury contractor.

This work shows a constant increase from year to year, as will be seen in the following table, and is an indication of the actual growth of the city :

AMOUNT OF ASHES, HOUSE AND STORE DIRT REMOVED.

Year.								No. of Loads.
1893 . . . . .	.	.	.	.	.	.	.	320,571 of 44 cubic feet
1894 . . . . .	.	.	.	.	.	.	.	326,798 " " " "
1895 . . . . .	.	.	.	.	.	.	.	336,886 " " " "
1896 . . . . .	.	.	.	.	.	.	.	363,975 " " " "
1897 . . . . .	.	.	.	.	.	.	.	¹ 389,098 " " " "

¹ Previous to the year 1897, each load of ashes contained about 44 cubic feet. During the year 1897 all the ash-carts owned by the city were equipped with side-boards, increasing their capacity to 54 cubic feet, but for the purpose of comparison the old basis has been used.

The following table shows the force engaged in this collection throughout the entire city:

The Force Employed.

CITY TEAMS.	No.	Hired Teams.	CONTRACTORS' TEAMS.				Total.
			North Dorchester.	South Dorchester.	East Boston.	West Roxbury.	
Sub-foremen	6	.....	.....	.....	1	1	8
Inspectors.....	5	.....	1	.....	.....	.....	6
Tallymen.....	3	.....	.....	.....	.....	.....	3
Teamsters.....	104	41	4	3	5	2	159
Helpers	110	41	4	3	5	2	165
Dumpers.....	20	.....	.....	.....	.....	.....	20
Totals	248	82	9	6	11	5	361

Comparative Statement of Number of Loads of Ashes Collected during Sixteen Weeks of the Summer and Sixteen Weeks of the Winter.

Summer.	Loads.	Winter.	Loads.	Difference for Winter.	Loads.
April 29, 1893, to August 18, 1893	91,721	October 28, 1893, to February 16, 1894	106,851	1893	15,130
“ 27, 1894, “ 16, 1894	88,865	“ 25, 1894, “ “ 7, 1895	116,915	1894	28,050
“ 26, 1895, “ “ 15, 1895	94,671	“ 18, 1895, “ “ 6, 1896	121,873	1895	27,202
“ 30, 1896, “ “ 13, 1896	101,135	“ 16, 1896, “ January 28, 1897	117,214	1896	16,079
“ 29, 1897, “ “ 19, 1897	109,366	“ 15, 1897, “ “ 27, 1898	126,057	1897	16,691

Final disposition of all material collected from February 1, 1897, to February 1, 1898, together with the portion of street sweepings and cesspool dirt, disposed of for other divisions by the Sanitary Division, is shown in the following table:

	Amount collected.	Deposited on low lands.	Towed to sea.	Collected by con- tractors.	Sold to farmers.
	<i>Loads.</i>	<i>Loads.</i>	<i>Loads.</i>	<i>Loads.</i>	<i>Loads.</i>
Ashes, house and store dirt	389,098	243,556	100,905	44,637	
House offal.....	56,783	2,226	13,576	10,712	30,269
Street sweepings	29,831	.....	29,831		
Cesspool dirt	2,998	.....	2,998		
	478,710	245,782	147,310	55,349	30,269

¹This amount is included in the amount collected, 56,783. Of the 10,712 loads, 3,720 were collected in East Boston, 4,712 in Dorchester, 1,520 in Brighton, and 760 in West Roxbury.

The total expenditures of the division, including work done for other divisions and paid for by them, was	\$523,487 04
Less amount so repaid	30,816 48
	<u>\$492,670 56</u>
Cash paid and bills rendered to City Collector	34,430 48
	<u>Net cost of maintenance of Sanitary Division, February 1, 1897, to January 31, 1898</u>
	\$458,240 08

Details of expenditures, income and operation will be found on pages 216 to 218.

FINANCIAL STATEMENT.

Amount of appropriation	\$460,000 00
Transferred from Surplus Revenue	32,670 56
	<u>Total amount appropriation</u>
	\$492,670 56
Total amount expended	<u>\$492,670 56</u>

INCOME.

Amounts of moneys deposited and bills presented to the City Collector for collection for material sold and work performed by the Sanitary Division of the Street Department during the year ending January 31, 1898.

On February 1, 1898, checks for \$2,649.80 were not deposited with the City Collector, as the messenger of the Sanitary Division, who was custodian of same, was unable to reach the office on account of the severe storm, hence the collector did not credit the division with the amount, \$2,649.80, included in above table.

Moneys deposited with City Collector.

From sale of house-offal	\$17,416 75	
From letting of scow privileges	1,314 55	
	<hr/>	\$18,731 30

Bills deposited with City Collector.

For the removal of engine ashes	\$14,176 58	
For the sale of manure	499 00	
For the letting of scow privileges	23 60	
For the letting of Fort Hill Wharf	1,000 00	
	<hr/>	15,699 18
		<hr/>
		\$34,430 48

Amount collected by the Collector	\$35,640 33
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Objects of Expenditures.

ITEMS.	Total amount expended.	Amount paid by other Divisions.	Amount charged to the Sanitary Division.
Salary of Deputy Superintendent	\$3,000 00	.....	\$3,000 00
Salaries clerks and messengers in office	7,388 61	.....	7,388 61
For labor in collecting and removing house dirt and ashes,	139,016 78	\$13,028 98	125,987 80
For labor in collecting and removing house offal	87,309 14	10,403 32	76,905 82
For labor of foremen	8,353 28	386 25	7,967 03
For labor of sub-foremen and inspectors collecting house offal	9,124 91	740 81	8,384 10
For labor of sub-foremen and inspectors collecting house dirt and ashes	11,631 53	741 75	10,889 78
For labor of men employed in stables and yards	21,188 13	1,013 37	20,174 76
For holidays allowed time	18,828 90	1,480 73	17,348 17
For labor, stock and tools used in blacksmith shop	6,836 41	506 35	6,330 06
For labor, stock and tools used in wheelwright shop	9,471 19	368 73	9,102 46
For labor, stock and tools used in harness shop	5,057 52	263 79	4,793 73
For labor, stock and tools used in paint shop	7,098 71	425 41	6,673 30
For labor, stock and tools used in horseshoeing shop,	5,924 83	230 38	5,694 45
For labor, rental, towage, etc., on account of dumping boats	21,596 67	6 45	21,590 22
For shoeing horses outside of shop	1,026 39	.....	1,026 39
<i>Carried forward</i>	\$362,853 00	\$29,596 32	\$333,256 68

Objects of Expenditures. — *Continued.*

ITEMS.	Total amount expended.	Amount paid by other Divisions.	Amount charged to the Sanitary Division.
<i>Brought forward</i>	\$362,853 00	\$29,596 32	\$333,256 68
For extra teams collecting ashes and house dirt	59,906 50	.. .....	59,906 50
For extra teams collecting house offal.....	6,234 50	.....	6,234 50
For grain used in stable	15,110 89	92 70	15,018 19
For hay and straw used in stable.....	14,332 82	1,089 69	13,243 13
For horses	5,977 00	.....	5,977 00
For repairs on stable and sheds.....	4,702 15	.....	4,702 15
For fuel	884 05	20 82	863 23
For gas	408 02	.....	408 02
For electric light.....	494 20	.....	494 20
For medical attendance and medicine.....	2,332 94	.....	2,332 94
For printing	1,953 12	.....	1,953 12
For stationery.....	784 13	.....	784 13
For advertising	480 14	.....	480 14
For water-rates	740 40	.....	740 40
For ash stock, consisting of shovels, cart covers, etc....	753 01	.....	753 01
For offal stock, consisting of wagons, buckets, disinfectants, etc.	4,761 48	.....	4,761 48
For stable stock, consisting of sponges, brushes, curry-combs, etc.	1,133 69	16 95	1,116 74
For collecting house dirt and ashes in East Boston	7,474 96	.....	7,474 96
For collecting house dirt and ashes in Dorchester, south of Park, School and Harvard streets.....	4,035 09	.....	4,035 09
For collecting house dirt and ashes in Dorchester, north of Park, School and Harvard streets	4,387 44	.....	4,387 44
For collecting house dirt and ashes in West Roxbury, south of Pond, May, Arborway and Morton streets....	2,084 44	.....	2,084 44
For collecting house offal in East Boston.....	8,000 00	.....	8,000 00
For collecting house offal in Brighton.....	1,999 92	.....	1,999 92
For collecting house offal in part of West Roxbury	1,488 00	.....	1,488 00
For collecting house offal in Dorchester	5,897 00	.....	5,897 00
<i>Carried forward</i>	\$519,208 89	\$30,816 48	\$488,392 41

Objects of Expenditures. — *Concluded.*

ITEMS.	Total amount expended.	Amount paid by other Divisions.	Amount charged to the Sanitary Division.
<i>Brought forward</i>	\$519,208 89	\$30,816 48	\$488,392 41
Incidentals:			
Tolls and fares.. \$1,050 00			
Telephones 522 11			
Office expenses and items 133 00			
Rents 756 25			
Board and use of horses 696 04			
Damage by city teams..... 25 15			
Driving sleigh... 45 00			
Recording and registering ... 208 00			
Miscellaneous supplies for stable 172 55			
Swett-street scales 200 00			
Newspapers 6 00			
Maps, plans, atlas, etc. 324 75			
Office annunciator, installation 89 30			
	4,278 15	.....	4,278 15
	\$523,487 04		\$492,670 56
Paid by Street Cleaning Division .....	.....	.....	15,512 87
Paid by Paving Division.....	.....	.....	6,733 48
Paid by Sewer Division.....	.....	.....	5,850 69
Paid by Central Office .....	.....	.....	971 76
Paid by Street Watering Division .....	.....	.....	421 52
Paid by Bridge Division .....	.....	.....	138 77
Paid by County of Suffolk ...	.....	.....	1,182 39
Total	\$523,487 04	\$30,816 48	\$523,487 04

Total Cost for Removal of House-dirt, Ashes and House-offal.

HOUSE-DIRT AND ASHES ACCOUNT.

Expended for labor, as per pay-rolls . . .	\$150,648 31	
Expended for stock, etc., as per ledger account, . . .	153,667 51	
Expended on contracts, Dorchester . . .	8,422 53	
Expended on contracts, East Boston . . .	7,474 96	
Expended on contract, part of West Roxbury, . . .	2,084 44	
		\$322,297 75
<i>Carried forward,</i>		\$322,297 75

HOUSE-OFFAL ACCOUNT.

<i>Brought forward,</i>		\$322,297 75
Expended for labor, as per pay-rolls . . .	\$96,434 05	
Expended for stock, etc., as per ledger account, . . .	72,703 20	
Expended on contract, East Boston . . .	8,000 00	
Expended on contract, Brighton . . .	1,999 92	
Expended on contract, Dorchester . . .	5,897 00	
Expended on contract, West Roxbury . . .	1,488 00	
		186,522 17
Salaries	\$10,388 61	
Incidentals	4,278 51	
		14,667 12
Total		\$523,487 04

Comparative Table showing the Cost of Collecting Ashes and Offal and Delivering same at various Dumps.

Cost per cart-load, including administration expenses . . .	\$1 10
“ “ “ minus “ “ . . .	1 07
“ “ “ of ashes, hired teams and contracts . . .	53
“ “ “ “ labor, hired teams, contracts, etc., . . .	83
“ “ “ “ offal “ “ “ “ “ “ . . .	3 28
“ “ “ “ “ hired teams and contracts . . .	1 77
“ “ dumping-boat load to transport garbage to sea . . .	65 24
“ “ cart-load “ “ “ “ “ . . .	15

Amount expended for the Collection of House-dirt, Ashes and House-offal, Labor, Hired Teams and Contracts.

DISTRICTS.	Expended for Collecting.	
	Ashes.	Offal.
1—South Boston.....	\$17,068 88	\$8,772 50
2—East Boston.....	7,812 46	8,336 00
3—Charlestown.....	14,795 81	7,230 41
4—Brighton.....	6,627 00	2,403 67
5—West Roxbury.....	14,314 19	6,457 75
6—Dorchester.....	8,862 03	6,330 50
7—Roxbury.....	37,521 28	21,940 21
8—9—South End and Back Bay.....	72,062 78	53,857 68
10—West and North End.....	49,472 31	4,724 75
Totals.....	\$228,536 74	\$120,053 47

ASH CONTRACTS.

W. F. Hedrington,	\$7,474 96	for territory in East Boston.
Matthew E. Nawn,	491 11	} “ “ West Roxbury, south of Pond street.
John J. Moore....	1,593 33	
John McShane....	4,387 44	“ “ “ Dorchester, north of Park, School and Harvard streets.
Denis Flynn.....	2,837 75	} “ “ “ Dorchester, south of Park, School and Harvard streets.
John McShane....	1,197 34	

OFFAL CONTRACTS.

Thomas Mulligan.	\$8,000 00	for territory in East Boston.
Geo. T. Barnes....	1,488 00	" " " West Roxbury.
John Bradlee.....	3,167 83	" " " Dorchester.
John McShane....	2,729 17	" " " Dorchester.
D. B. Morrill	1,999 92	" " " Brighton.

Expenses of Dumping-boats.

Amount expended for towing by department tow-boat	\$7,155 74	
Amount expended for towing by hired tow-boat,	2,145 00	\$9,300 74
Amount expended for repairs on boats	\$339 50	
" " " " " wharf	2,277 59	2,617 09
Amount expended for labor, Captain	\$1,800 00	
" " " crews and dumpers	5,839 16	7,639 16
Amount expended for dredging . . . . .	.	725 00
" " " rents . . . . .	.	999 99
" " " canvas and screen . . . . .	.	26 30

INCIDENTALS.

Amount expended for disinfectants	\$167 95	
" " " manila rope, blocks, etc. . . .	25 89	
" " " telephone, salt, etc. . . .	51 50	
" " " kerosene oil and supplies	14 89	
" " " coal	28 16	288 39
		<u>\$21,596 67</u>
Number of trips to sea by department tow-boat . . . .	.	281
" " " hired tow-boat . . . . .	.	50
		<u>331</u>

Cost per trip, \$65.24.

Number of cart-loads of garbage carried to sea, 147,310.

Cost per cart-load, 15 cents.

Material Collected by Districts.

MATERIAL.	South End and Back Bay.	West End.	Roxbury.	Charlestown.	Brighton.	S. Boston.	E. Boston.	Dorchester.	W. Roxbury.	Total Loads.
House dirt and ashes	108,146	93,605	64,140	21,515	10,711	27,695	13,396	25,627	24,263	389,098
House offal....	25,326	2,533	9,198	2,773	1,520	4,025	3,720	4,712	2,971	56,783
Totals	133,472	96,138	73,338	24,288	12,231	31,720	17,116	30,339	27,234	445,881

Disposition of Material Collected.

WHERE DUMPED.	Loads of House Dirt and Ashes.	Loads of House Offal.	Loads of Street Sweepings, Street Cleaning Division.	Loads of Cesspool Matter, Sewer Division.	Total Loads.
Swett st., J. C. Cobb	30,181	.....	.....	.....	30,181
Norfolk ave., J. J. Nawn, <i>et als</i> ,	23,872	.....	.....	.....	23,872
First st., East Cambridge, J. T. Scully	19,938	.....	.....	.....	19,938
Ward st., Sewall-Day Co.	19,567	.....	.....	.....	19,567
Mill pond, Charlestown, City Park Department	15,962	.....	.....	.....	15,962
Brookline ave., J. Barry	11,365	.....	.....	.....	11,365
Vale st., Choate Burnham estate	11,213	.....	.....	.....	12,213
Massachusetts ave., Mr. Brown, Russia wharf, Kendall & Stev- ens	11,045	.....	.....	.....	11,045
.....	10,054	.....	.....	.....	10,054
Parker st., Mr. Bowers	10,050	.....	.....	.....	10,050
Harold st., J. Stone	9,879	.....	.....	.....	9,879
First st., Commonwealth of Massachusetts	8,814	.....	.....	.....	8,814
Williams st., Mrs. Carey	8,696	.....	.....	.....	8,696
Centre st., O. Nawn	8,540	.....	.....	.....	8,540
Maverick st., East Boston Land Company	5,994	.....	.....	.....	5,994
E. Ninth st., H. J. Bowen, agt., 429 Medford st., Geo. H. Woods, Devon st., Frank Foster	5,641	.....	.....	.....	5,641
.....	4,478	.....	.....	.....	4,478
.....	3,806	.....	.....	.....	3,806
May st., F. A. Seaverns	3,731	.....	.....	.....	3,731
Congress st., Commonwealth of Massachusetts	2,420	.....	.....	.....	2,420
Various places, City teams ...	24,304	2,226	.....	.....	26,530
Various places, contracts	38,643	.....	.....	.....	38,643
At sea by scows	100,905	13,576	29,831	2,998	147,310
Sold to farmers .....	.....	30,269	.....	.....	30,269
E. Boston, by Thos. Mulligan .....	.....	3,720	.....	.....	3,720
Brighton, by D. B. Morrill .....	.....	1,520	.....	.....	1,520
Dorchester, by John McShane, .....	.....	1,428	.....	.....	1,428
Dorchester, by John Bradley .....	.....	3,284	.....	.....	3,284
W. Roxbury, by G. T. Barnes .....	.....	760	.....	.....	760
Totals	389,098	56,783	29,831	2,998	478,710

Number of Loads of Material Collected from January 31, 1893, to February 1, 1898.

YEARS.	Ashes.	Offal.	Total Loads.
1893	320,571	51,415	371,986
1894	326,798	50,637	377,435
1895	336,886	51,327	388,213
1896	363,975	56,402	420,377
1897	¹ 389,098	² 56,783	445,881

¹ William F. Hedrington, East Boston, collected	13,396 Loads.
John McShane, North Dorchester, collected	14,336 "
John McShane, South Dorchester, collected	2,945 "
Denis Flynn, South Dorchester, collected	8,346 "
Matthew E. Nawn, part of West Roxbury, collected	1,674 "
John J. Moore, part of West Roxbury, collected	3,940 "
	44,637 "

² Thomas Mulligan, East Boston, collected	3,720 Loads.
David B. Morrill, Brighton, collected	1,520 "
John McShane, Dorchester, collected	1,428 "
John Bradley, Dorchester, collected	3,284 "
George T. Barnes, part of West Roxbury, collected	760 "
	10,712 "

Material Collected, Cost of Hired Teams, Including Contracts.

	NUMBER OF LOADS.			AMOUNT EXPENDED.		
	Ashes.	Offal.	Total.	Ashes.	Offal.	Total.
South Yard	29,326	956	30,282	\$18,793 00	\$1,927 50	\$20,720 50
West Yard	19,276	2	19,278	10,617 50	10 00	10,627 50
Roxbury Yard	24,544	969	25,513	14,526 00	2,624 50	17,150 50
Charlestown Yard	2,427	217	2,644	1,553 50	602 50	2,156 00
Brighton Yard	6,573	⁷ 1,517	8,090	3,855 50	1,999 92	5,855 42
South Boston Yard	13,837	2	13,839	6,681 00	35 00	6,716 00
West Roxbury, by Roxbury Yard	7,060	453	7,513	3,880 00	1,035 00	4,915 00
West Roxbury, south of Pond and Morton sts., ashes, M. E. Nawn and J. J. Moore; offal, George Barnes	^{1,2} 5,614	⁸ 760	6,374	2,084 44	1,488 00	3,572 44
East Boston, ashes, W. F. Hedrington; offal, T. Mulligan	⁸ 13,396	⁹ 3,720	17,116	7,474 96	8,000 00	15,474 96
Dorchester, ashes, south of Park, School and Harvard sts., John McShane and Denis Flynn	^{4,5} 11,290		11,290	4,035 09		4,035 09
Dorchester, ashes, north of Park, School and Harvard sts., John McShane	⁶ 14,336		14,336	4,387 44		4,387 44
Dorchester, offal, John McShane and John Bradley		¹⁰ 115,488	5,488		5,897 00	5,897 00
	147,679	14,084	161,763	\$77,888 43	\$23,619 42	\$101,507 85

CONTRACTS.

Ashes.	Offal.
¹ Nawn	⁷ Morrill
² Moore	⁸ Barnes
³ Hedrington	⁹ Mulligan
⁴ McShane	¹⁰ McShane
⁵ Flynn	¹¹ Bradley
⁶ McShane	

Contracts.

OBJECT.	Contractor.	Price.	CONTRACT.	
			Commences.	Ends.
Removal of ashes, South Dorchester.....	Denis Flynn.....	\$3,850 00	April 10, 1897.	April 15, 1899.
" " " North Dorchester.....	John McShane.....	4,387 50	March 1, 1896.	March 1, 1898.
" " " part of West Roxbury.....	John J. Moore.....	2,100 00	April 10, 1897.	April 15, 1899.
" " " East Boston.....	W. F. Hedington.....	7,500 00	February 1, 1896.	April 1, 1898.
" " " house offal, East Boston.....	T. Mulligan.....	8,000 00	January 1, 1896.	January 1, 1899.
" " " West Roxbury.....	G. T. Barnes.....	1,488 00	April 1, 1895.	April 1, 1898.
" " " Dorchester.....	John Bradley.....	4,980 00	May 11, 1897.	May 12, 1900.
" " " Brighton.....	D. B. Morrill.....	2,000 00	May 1, 1895.	May 1, 1898.

Material Sold by Contract.

OBJECT.	Contractor.	Price.	Payments made to City Collector.
Manure of Horses at South Yard.....	G. A. Safford	\$2 00 a horse per year.	\$240 00
" " " West and Charlestown Yards.....	Geo. P. Winn.....	2 00 " " "	190 00
" " " Highland Yard	J. A. Budlong & Son.....	1 00 " " "	69 00

DIVISION OF AMOUNT EXPENDED.

	Hired Teams.	Contractors.	Total.
Ashes	\$59,906 50	\$17,981 93	\$77,888 43
Offal	6,234 50	17,384 92	23,619 42
Total	\$66,141 00	\$35,366 85	\$101,507 85

The money received from the sales of house offal is deposited monthly with the City Collector, and then credited to the sinking-fund of the City of Boston.

HOUSE DIRT AND ASHES.

In the collection of house dirt and ashes there are employed 361 men and 159 carts. This material is removed from hotels, tenement houses and stores daily; from dwelling-houses once a week.

The City Ordinances of 1892 (chapter 36) require that house dirt and ashes shall be kept in an easily accessible place for their removal, the men being obliged to enter the yards and remove the receptacles to the sidewalks, where their contents are dumped into the carts. The receptacles are then placed in their original position. The material is disposed of, if possible, on low lands, being used for filling, and is also dumped on scows, to be carried to sea. Of the amount collected last year, 26 per cent. was disposed of in this manner, viz., carried to sea.

There are four sections of the city let out by contract for the collection of house dirt and ashes. Dorchester contracts — South is held by Denis Flynn, and North Dorchester by John McShane; East Boston, by W. F. Hedrington, and a part of West Roxbury by John J. Moore.

The entire city proper, including Roxbury and a part of West Roxbury, together with South Boston, Charlestown and Brighton, are now done by day labor.

HOUSE OFFAL.

There are employed in the removal of house offal 205 men and 92 wagons. The offal is removed from dwelling-houses twice a week during the summer months, and once a week during the winter; from hotels, markets and restaurants it is removed daily. The men are required to enter yards, collect the offal, empty into wagons and deliver at the depots, located as follows: One on Albany street, one at the Almshouse, Charlestown; also to the dumping-boats located at Fort Hill Wharf on Atlantic avenue.

The offal is largely sold to farmers of adjoining towns; the remainder is dumped on the scows and carried to sea. About 24 per cent. of the quantity collected during the past year has been disposed of in this manner. The Dorchester, Brighton, East Boston and West Roxbury contractors dispose of offal at present in the same manner as the city itself, by sale to farmers.

BLACKSMITH SHOP.

Cost to maintain during the past year the sum of \$6,836.41, of which amount, \$5,069.65 was expended for labor, and \$1,766.76 for stock. The carts, wagons and other vehicles of the division were properly overhauled when in need of repairs, and the entire lot of ash and offal sheds were put in proper working order. Of the above amount expended in maintaining these shops, the following amounts were charged off to the several divisions, for repairing, altering and putting in good condition their carts, wagons, watering carts, sleds, etc.:

Paving Division	\$1,488 73
Sewer Division	1,500 63
Street Cleaning Division	28 13
Bridge Division	58 83
Street Watering Division	112 66
Central Office	328 87
	<hr/>
	<u>\$3,517 85</u>

This leaves a net cost of \$3,313.56 for the repairs and construction of all work of this character for the Sanitary Division.

There are employed in this shop six blacksmiths and one helper.

PAINT SHOP.

Cost to maintain \$7,098.71, of which amount, \$5,941.97 was expended on labor and \$1,156.74 for stock. The work done by this shop was the painting and lettering of that which was either built or repaired in the wheelwright or blacksmith shops, together with 1,186 different styled signs that were painted for the Paving Division. Of the above amount expended for maintaining this shop, the following amounts were paid by the several divisions of the departments for painting carts, wagons, buggies, signs, etc.:

Paving Division	\$2,217 78
Sewer Division	940 49
Street Cleaning Division	783 09
Bridge Division	21 27
Street Watering Division	197 06
Central Office	215 54
County of Suffolk	85
	<hr/>
	<u>\$4,376 08</u>

Leaving the balance, \$2,722.63, as the cost of this work for the Sanitary Division.

This shop employs seven painters and three helpers.

HARNESS SHOP.

Cost to maintain \$5,057.52, of which amount, \$3,178.46 was expended for labor, and \$1,879.06 on stock; part of the work sent to the blacksmith and wheelwright shops was also repaired here, such as Goddard and Concord buggies, leather seats for wagons, etc., together with all the new pieces of harness made for the several divisions. The entire lot of old and new harness owned by the

STREET DEPARTMENT — SANITARY DIVISION. 227

Sanitary Division has, during the year, been overhauled, repaired and oiled at this shop. Of the above amount paid out for maintaining this shop the amounts charged to the several divisions of the department for work done were as follows:

Paving Division	\$219 39
Sewer Division	610 54
Street Cleaning Division	192 63
Bridge Division	15 28
Street Watering Division	27 69
Central Office	89 00
County of Suffolk	1 24
	<u>\$1,155 77</u>

Leaving balance, \$3,901.75, as the net cost of work done for the Sanitary Division.

This shop employs three harness-makers and one helper.

HORSESHOEING SHOPS.

Cost to maintain during the past year: South Yard, \$3,711.04; West Yard, \$2,213.79, of which amount, \$3,136.13 was expended for labor at South Yard, and \$1,751.02 at West Yard, and for stock at South Yard \$574.91, and for West Yard \$462.77. All of the horses at the South Yard, together with the Street Cleaning Division horses stabled there, as also some of the horses located in the different stables of this division, and of other divisions of this Department, are shod at these shops, and for which the several divisions were charged the following amounts:—

	South Yard.	West Yard.
Paving Division.....	\$96 95	\$21 25
Sewer Division	586 05	302 75
Street Cleaning Division.....	992 70	801 32
Central Office.....		160 75
County of Suffolk		115 50
Bridge Division.....		14 75
	<u>\$1,675 70</u>	<u>\$1,416 32</u>

Leaving balance of \$2,035.34, South Yard, as the cost to the Sanitary Division for this class of work.

Leaving balance of \$797.47, West Yard, as the cost to the Sanitary Division for this class of work.

These shops employ three horseshoers at South Yard and two at West Yard.

Cost of Horseshoeing.

	Division Shops.	Outside Shops.
Stock.....	\$1,037 68	
Labor.....	<u>4,887 15</u>	
	\$5,924 83	\$1,026 39

KIND AND STYLE.	DIVISIONS.						TOTAL.
	Sanitary Division.	Street Cleaning Division.	Sewer Division.	Paving Division.	Central Office.	County of Suffolk.	
New Shoes.....	6,003	3,094	1,112	309	280	200	10,998
Bar Shoes.....	59	16	27	2	.....	.....	104
Resets.....	925	269	222	41	29	18	1,504
Leathers	1,930	1,033	346	144	69	31	3,553

Average cost per shoe, 43 cents. West Yard, average cost per shoe, 44 cents. South Yard, average cost per shoe, 42 cents.

Table showing the amounts paid for the Different Kinds and Character of Work Performed by the Sanitary Division, by the Several Other Divisions of the Street Department, and Others.

	Paving Division.	Sewer Division.	Street Cleaning Division.	Bridge Division.	Street Watering Division.	Central Office.	County of Suffolk.	Totals.
Blacksmith work	\$1,488 73	\$1,500 63	\$28 13	\$58 83	\$112 66	\$328 87	.....	\$3,517 85
Wheelwright work	2,643 02	1,220 86	45 16	28 64	84 11	177 60	\$4 80	4,213 79
Harness work	219 39	610 54	192 63	15 28	27 69	89 00	1 24	1,155 77
Painting	2,217 78	940 49	783 09	21 27	197 06	215 54	85	4,376 08
Horseshoeing	118 20	888 80	1,794 02	14 75	.....	160 75	115 50	3,092 02
Use of dumping boats .....	.....	482 05	4,148 70	.....	.....	.....	.....	4,630 75
Hay and grain, board of horses	25 38	36 66	5,868 60	.....	.....	.....	792 88	6,723 52
Yard and stable labor	16 92	27 40	2,182 02	.....	.....	.....	207 76	2,434 10
Fuel and lights at stable .....	.....	.....	194 23	.....	.....	.....	19 78	214 01
Water at stables .....	.....	.....	141 42	.....	.....	.....	19 78	161 20
Horses .....	.....	125 00	.....	.....	.....	.....	.....	125 00
Veterinary and medicines	8 46	9 26	1 41	.....	.....	.....	.....	19 13
Incidentals .....	.....	.....	133 46	.....	.....	.....	.....	153 26
Totals	\$6,738 48	\$5,850 69	\$15,512 87	\$138 77	\$421 52	\$971 76	\$1,182 39	\$30,816 48

Table showing the Number and Variety of Vehicles, etc., belonging to the Several Divisions of the Street Department, on which Repairs were made at the Wheelwright Shop by the Mechanics of the Sanitary Division.

From January 29, 1897, to January 27, 1898.

KIND.	DIVISIONS.							Total.
	Paving.	Sewer.	Sanitary.	Bridge.	Street Watering.	Central Office.	City Architect.	
Carts.....	18	1	257	.....	.....	.....	..	276
Half-moon iron carts.....	.....	4	.....	.....	.....	.....	.....	4
Market wagons.....	.....	.....	8	.....	.....	.....	.....	8
Street watering carts.....	4	.....	.....	.....	4	.....	.....	8
Offal wagons .....	.....	.....	70	.....	.....	.....	.....	70
Goddard buggies.....	7	18	4	.....	1	.....	1	31
Box buggies.....	2	2	4	.....	1	3	.....	12
Concord buggies	10	5	17	4	.....	.....	.....	36
Corning buggies .....	.....	3	.....	.....	.....	1	.....	4
Stanhope buggies .....	.....	1	.....	.....	.....	2	..	3
Two-seated wagons .....	.....	1	1	.....	.....	.....	.....	2
Double jiggers.....	2	.....	.....	.....	.....	.....	.....	2
Single jiggers.....	2	.....	.....	.....	.....	.....	.....	2
Sleighs.....	3	.....	.....	.....	.....	.....	.....	3
Double tip carts.....	2	.....	.....	.....	.....	.....	.....	2
Two-horse offal wagons .....	.....	.....	3	.....	.....	.....	.....	3
Offal sleds .....	.....	.....	1	.....	.....	.....	.....	1
Iron offal carts .....	.....	.....	13	.....	.....	.....	.....	13
Express wagons.....	6	17	6	5	.....	.....	.....	34
Double runner pungs .....	.....	1	.....	.....	.....	.....	.....	1
Gully cleaner (automatic).....	.....	1	.....	.....	.....	.....	.....	1
Top buggy.....	.....	1	.....	.....	.....	.....	.....	1
Two-horse cesspool wagon.....	..	1	.....	.....	.....	.....	.....	1
Iron tip carts	1	1	.....	.....	.....	.....	.....	2
Two-horse stone wagon	1	.....	.....	.....	.....	.....	.....	1
Steam rollers	3	.....	.....	.....	.....	.....	.....	3
Total	61	57	384	9	6	6	1	524

Table showing the Number and Variety of Vehicles, etc., belonging to the Several Divisions of the Street Department, on which Repairs were made at the Blacksmith Shop by the Mechanics of the Sanitary Division.

From January 29, 1897, to January 27, 1898.

KIND.	DIVISIONS.								Total.
	Paving.	Sewer.	Sanitary.	Street Cleaning.	Bridge.	Street Watering.	Central Office.	City Architect.	
Carts	27	4	385	1	.....	.....	.....	.....	417
Half-moon and iron carts ..	3	9	.....	.....	.....	.....	.....	.....	12
Market wagons .....	.....	.....	13	.....	.....	.....	.....	.....	13
Street watering carts	4	.....	.....	.....	.....	9	.....	.....	13
Offal wagons .....	.....	.....	206	.....	.....	.....	.....	.....	206
Goddard buggies	12	17	13	.....	.....	1	8	1	52
Box buggies	1	2	8	.....	.....	3	2	.....	16
Concord buggies	21	28	25	1	7	1	1	.....	84
Corning buggies .....	.....	3	.....	.....	.....	.....	1	.....	4
Stanhope buggies .....	.....	4	.....	.....	.....	.....	2	.....	6
Carryalls .....	.....	.....	1	.....	.....	.....	.....	.....	1
Express wagons	8	23	9	1	7	.....	.....	.....	48
Two-seated wagons .....	.....	2	1	.....	.....	.....	.....	.....	3
Cesspool wagons	3	10	.....	.....	.....	.....	.....	.....	13
Two-wheel stone trucks	3	.....	.....	.....	.....	.....	.....	.....	3
Jiggers	4	.....	.....	.....	.....	.....	.....	.....	4
Sleds .....	.....	.....	21	.....	.....	.....	.....	.....	21
Sleighs	4	1	1	1	1	.....	1	.....	9
Double runner pungs .....	.....	2	.....	.....	.....	.....	.....	.....	2
Gully cleaners (automatic) ..	.....	5	.....	.....	.....	.....	.....	.....	5
Stone wagons	1	.....	.....	.....	.....	.....	.....	.....	1
Total	91	110	683	4	15	14	15	1	933

Table showing the Number and Variety of Vehicles, etc., belonging to the Several Divisions of the Street Department, on which Work was performed at the Paint Shop by the Mechanics of the Sanitary Division.

From January 29, 1897, to January 27, 1898.

KIND.	DIVISIONS.							Total.
	Paving.	Sewer.	Sanitary.	Street Cleaning.	Bridge.	Street Watering.	Central Office.	
Carts.....	18	1	241	44	.....	.....	.....	304
Half-moon iron carts.....	.....	4	.....	.....	.....	.....	.....	4
Market wagons.....	.....	.....	5	.....	.....	.....	.....	5
Street watering carts.....	3	.....	.....	5	.....	7	.....	15
Offal wagons.....	.....	.....	122	.....	.....	.....	.....	122
Goddard buggies.....	8	19	7	2	.....	1	5	42
Box buggies.....	3	3	5	3	.....	2	1	17
Concord buggies.....	16	9	19	3	7	1	1	56
Express wagons.....	8	15	5	.....	6	.....	.....	34
Two-seated wagons.....	.....	1	2	.....	.....	.....	.....	3
Two-horse cesspool wagons.....	.....	6	.....	.....	.....	.....	.....	6
Two-wheel stone trucks.....	4	.....	.....	.....	.....	.....	.....	4
Sweeping machines.....	.....	.....	.....	18	.....	.....	.....	18
Jiggers.....	3	.....	.....	.....	.....	.....	.....	3
Sleds.....	.....	.....	20	.....	.....	.....	.....	20
Sleighs.....	4	1	1	1	.....	.....	.....	7
Double runner pungs.....	.....	1	1	.....	.....	.....	.....	2
Tubs for push carts.....	.....	.....	.....	60	.....	.....	.....	60
Stables.....	.....	.....	1	.....	.....	.....	.....	1
Offices inside.....	.....	.....	1	.....	.....	.....	.....	1
Buildings.....	.....	.....	2	.....	.....	.....	.....	2
Signs.....	1,154	15	9	8	.....	.....	.....	1,186
Sign posts.....	139	.....	.....	.....	.....	.....	.....	139
One tenement, 6 rooms and halls..	.....	.....	1	.....	.....	.....	.....	1
Total.....	1,360	75	442	144	13	11	7	2,052

Repairs and Alterations on Buildings, etc., made by Mechanics of the Wheelwright Shop.

	Cost of Material used.	Cost of Labor.
South End Yard	\$73 00	\$266 22
Swill-house	52 15	42 82
West End Yard	97 88	174 88
Highland Yard	20 53	90 10
City Scales .....	.....	61 25
Fort Hill Wharf	146 71	223 01
Repairing fences	17 50	2 89
Making tail boards	17 74	45 60
Repairing cart wheels	5 90	18 00
Making shafts .....	.....	13 00
Making hames	3 40	11 00
Making three boxes for Central Office ..	10 50	5 58
Total	\$445 31	\$954 35

Signs for Paving Division.

	Number of Signs.	Cost of Stock.	Cost of Labor.
Double face signs	225	\$54 00	\$69 75
Single face signs	357	85 68	92 82
Lawn signs	2	9 40	2 38
T special signs	28	140 28	33 32
Suburban signs	94	137 24	69 56
Shaw patent signs	77	200 20	77 66
No passing through	36	5 40	5 40
Shaw patent three corner signs ..	3	7 80	2 94
Steam roller at work	6	7 80	7 20
Private way	24	6 24	1 44
Totals	852	\$654 04	\$362 47

NUMBER OF SIGNS PAINTED AND DELIVERED SINCE JANUARY 7, 1897.

427	Black and Gold, Street Signs (single face).
258	" " " " " (double face).
9	" " " " Ward and Street Signs (single face).
50	" " " " Private Way Signs. Dangerous passing.
132	" " " " White " " " "
5	" " " " Gold, Shaw Patent Signs (three sides).
97	" " " " " " (four sides).
9	Special Shaw Patent (four sides) Indicators. Different language.
1	Black and White Large Sign. Sanitary and Street Cleaning Division 10.
3	Black and White Signs for scales, public weigher. (Sanitary.)
5	" " " " " stable (positively no smoking), Street Cleaning.
1	Varnish finish Sign, Street Cleaning Office.
148	Black and White Signs, No passing through. (Paving.)
15	" " " " " " (Sewer.)
2	" " " " " for stable. (Sanitary.—Street Cleaning.)
12	Signs. No trespassing. (Paving.)
1	Large Sign. No thoroughfare. (Paving.)
6	Signs, Steam-roller at work. No passing. (Paving.)
5	" " No dumping. (Sanitary.)
19	T Special Posts, Two coats of paint. Lead and Black.
20	Lawn " " " " " " " "
100	Suburban " " " " " " " "

 139

 1,186

Table showing the Number of Articles and the Variety of Work Performed for the Several Divisions of the Street Department at the Harness Shop of the Sanitary Division.

KINDS.	DIVISIONS.								Total.
	Paving.	Sewer.	Sanitary.	Street Cleaning.	Bridge.	Street Watering.	Central Office.	City Architect.	
Harness and parts of harness repaired	3	63	552	137	.....	10	13	.....	778
New parts harness made ..	.....	.....	174	21	.....	1	1	.....	197
New harness made.....	.....	.....	1	.....	.....	.....	.....	.....	1
Concord buggies repaired,	10	13	22	4	3	.....	.....	.....	52
Goddard buggies repaired,	7	16	5	2	.....	1	11	1	43
Box buggies repaired.....	3	3	6	3	.....	2	2	.....	19
Sleighs repaired	2	.....	2	1	.....	.....	.....	.....	5
Water carts repaired	1	.....	.....	.....	.....	6	.....	.....	7
Express wagons repaired,	7	20	4	.....	3	.....	.....	.....	34
Horses numbered	9	14	43	12	2	1	1	.....	82
Horse tags lost.....	2	.....	4	1	.....	.....	.....	.....	7
Saddle pads made .....	.....	1	142	3	.....	.....	.....	.....	146
Collar pads made.....	.....	.....	72	4	.....	.....	.....	.....	76
Sweat collars made .....	.....	1	73	6	.....	.....	.....	.....	80
Poultice boots made .....	.....	1	25	.....	.....	1	1	.....	28
Muzzles made .....	.....	.....	1	.....	.....	.....	.....	.....	1
Carpet blankets made .....	.....	.....	44	.....	.....	.....	.....	.....	44
Buffalo robes repaired ...	.....	4	2	1	.....	1	2	.....	10
Carriage washers cut	8	12	8	.....	.....	.....	12	.....	40
Whips repaired.....	1	2	.....	.....	.....	1	1	.....	5
Calking boots made.....	.....	.....	1	.....	.....	.....	4	.....	5
Two-seated wagon repaired .....	.....	1	1	.....	.....	.....	.....	.....	2
Cushion for office chair ...	.....	1	1	.....	.....	.....	.....	.....	2
New halters made.....	.....	.....	37	1	.....	.....	.....	.....	38
Boot for Concord buggy made .....	.....	1	.....	.....	.....	.....	.....	.....	1
Blankets repaired.....	.....	9	5	.....	.....	3	.....	.....	17
Hooks for swill wagon covers .....	.....	.....	7	.....	.....	.....	.....	.....	7
<i>Carried forward.....</i>	53	162	1,232	196	8	27	48	1	1,727

Table showing the Number of Articles, Variety of Work, etc. — *Concluded.*

KINDS.	DIVISIONS.								Total.
	Paving.	Sewer.	Sanitary.	Street Cleaning.	Bridge.	Street Watering.	Central Office.	City Architect.	
<i>Brought forward.....</i>	53	162	1,232	196	8	27	48	1	1,727
Interfering boots made.....			3	1					4
Wagon shade covered.....	1								1
Dust covers made and repaired.....			80						80
Cart covers repaired.....			128						128
Carriage boot repaired....	1								1
Desks repaired	1		1						2
Leather seats for tip carts made.....		3							3
Baggage straps made.....		2							2
Weight straps made		1	4						5
Single hame straps made,		4	171						175
Leathers for oil covers made			36						36
Hames blackened and oiled			41						41
Oil covers repaired			9						9
Double hame straps made,			155	9					164
Carriage covers made			2						2
Blacksmith bellows repaired.....				1					1
Leather weight box made..				1			1		2
Total	56	172	1,862	208	8	27	49	1	2,383

Hay and Grain.

Account of Hay, Grain and Straw Fed Out and Used from February 1, 1897, to February 1, 1898.

YARDS.	MATERIAL.	Bales.	Bushels.	Pounds.	Total Cost.	Cost per Horse per Day.	Lbs. per Horse per Day.	Horses. Divisions: Sanitary. Street Cleaning.
South-yard Stable.	Hay.....	2,547	548,243	\$4,386 78	\$0.11	14 2/3	30,002 * 7,931 37,933 Average per day. 82 37
	Oats.....	.....	17,985	575,520	5,438 38	.14	15 6 1/2
	Shorts.....	.....	.....	12,900	103 50	.01	2 1/2
	Straw.....	382	.....	83,017	648 33	.01	2 1/2
	Corn.....	.....	1,643	92,008	641 84	.01	2 1/2
	Carrots.....	.....	.....	4,335	24 93	.01	2 1/2
Totals.....	Salt.....	1,080	3 30	.01	2 1/2	82 37 Average per day.
	English Vegetable Food, 17 bbls.....	.....	.....	.....	255 00	.01	2 1/2
					\$11,502 06	\$0.30	34 2/3	
West-yard Stable.	Hay.....	2,039	431,822	\$3,457 95	\$0.14	18 1/2	14,821 * 6,748 Supt. of Sts. Pur. Agent. 1,057 659 23,285 Average per day. 41 31 Supt. of Sts. Pur. Agent. 5 2
	Oats.....	.....	10,669	341,408	3,135 36	.13	14 1/2
	Shorts.....	.....	.....	4,500	35 45	.01	2 1/2
	Straw.....	243	.....	53,449	444 75	.01	2 1/2
	Corn.....	.....	.....	.....	.....	.....	.....
	Carrots.....	.....	.....	2,990	17 19	.01	2 1/2
Totals.....	Salt.....	190	75	.01	2 1/2	41 31 Supt. of Sts. Pur. Agent. 5 2
	English Vegetable Food, 14 bbls.....	.....	.....	.....	210 00	.01	2 1/2
					\$7,301 45	\$0.31	35 1/2	

*The Street Cleaning Division commenced to feed their own horses at these yards September 3, 1897.

Hay and Grain. — Continued.

Account of Hay, Grain and Straw Fed Out and Used from February 1, 1897, to February 1, 1898.

YARDS.	MATERIAL.	Bales.	Bushels.	Pounds.	Total Cost.	Cost per Horse per Day.	Lbs. per Horse per Day.	Horses, Divisions: Sanitary. Street Cleaning.
Highland-yard Stable.	Hay.....	1,268	.....	271,708	\$2,181 73	\$0.12 ⁵⁷ / ₁₈₁₃₃	141 ⁸⁴ / ₁₈₁₃₃	16,432
	Oats.....	.....	8,219	263,012	2,477 40	.13 ¹⁰¹ / ₁₈₁₃₃	14 ⁹¹ / ₁₈₁₃₃	1,701
	Shorts.....	.....	.....	12,200	96 30	.02 ¹⁴ / ₁₈₁₃₃	4 ¹³ / ₁₈₁₃₃	18,133
	Straw.....	336	.....	73,882	537 30	.02 ¹⁴ / ₁₈₁₃₃	4 ¹³ / ₁₈₁₃₃	Average per day.
	Corn.....	.....	75	4,200	32 62	.02 ¹⁴ / ₁₈₁₃₃	4 ¹³ / ₁₈₁₃₃	45
	Salt.....	.....	.....	1,600	9 20	.02 ¹⁴ / ₁₈₁₃₃	4 ¹³ / ₁₈₁₃₃	5
Totals.....	Carrots.....	.....	.....	.....	.....	.....	.....
	English Vegetable Food, 13 ¹ / ₂ bbls.....	.....	.....	.....	202 50	.01 ²¹¹ / ₁₈₁₃₃	.....
		1,604	8,294	626,602	\$5,537 05	\$0.30 ⁹⁷ / ₁₈₁₃₃	341 ⁰⁸ / ₁₈₁₃₃	
Charlestown-yard Stable.	Hay.....	962	.....	188,833	\$1,505 26	\$0.17 ⁴⁰ / ₁₈₁₃₃	21 ⁵⁷ / ₁₈₁₃₃	5,737
	Oats.....	.....	4,125	132,000	1,206 75	.14 ⁷⁹ / ₁₈₁₃₃	15 ³⁷ / ₁₈₁₃₃	2,877
	Shorts.....	.....	.....	2,200	15 58	.02 ¹⁴ / ₁₈₁₃₃	2 ¹⁰ / ₁₈₁₃₃	8,614
	Straw.....	97	.....	21,276	180 44	.02 ¹⁴ / ₁₈₁₃₃	2 ¹⁰ / ₁₈₁₃₃	Average per day.
	Corn.....	.....	.....	.....	.....	.....	.....	16
	Carrots.....	.....	.....	2,375	13 66	.02 ¹⁴ / ₁₈₁₃₃	2 ¹⁰ / ₁₈₁₃₃	8
Totals.....	Salt.....	.....	.....	.....	.....	.....	.....
	English Vegetable Food, 7 ¹ / ₂ bbls.....	.....	.....	.....	112 50	.01 ²⁶³ / ₁₈₁₃₃	.....
		1,059	4,125	346,684	\$3,034 19	\$0.35 ¹³² / ₁₈₁₃₃	40 ²¹ / ₁₈₁₃₃	

Hay and Grain. — Concluded.
Account of Hay, Grain and Straw Fed Out and Used from February 1, 1897, to February 1, 1898.

YARDS.	MATERIAL.	Bales.	Bushels.	Pounds.	Total Cost.	Cost per Horse per Day.	Lbs. per Horse per Day.	Horses. Divisions: Sanitary. Street Cleaning.
South Boston Stable.	Hay	495	.....	109,356	\$894 67	\$0.16 ^{26.03} ₅₅₇₉	19 ^{26.03} ₅₅₇₉	5,579
	Oats .....	.....	2,580	82,560	789 40	.14 ^{26.71} ₅₅₇₉	14 ^{26.71} ₅₅₇₉	—
	Shorts .....	.....	.....	2,350	19 42	.03 ^{26.71} ₅₅₇₉	3 ^{26.71} ₅₅₇₉	—
	Straw	28	.....	5,950	50 24	.08 ^{26.71} ₅₅₇₉	1 ^{26.71} ₅₅₇₉	Average per day.
	Corn .....	.....	.....	.....	.....	.03 ^{26.71} ₅₅₇₉	.....	15
	Carrots .....	.....	.....	.....	.....	.....	.....	—
	Salt .....	.....	.....	2 20	1 20	.03 ^{26.71} ₅₅₇₉	.....	—
Totals.....	English Vegetable Food, 5 ¹ / ₂ bbls....	.....	.....	.....	82 50	.01 ^{26.71} ₅₅₇₉	.....	—
	.....	523	2,580	200,436	\$1,837 43	\$0.32 ^{26.71} ₅₅₇₉	35 ^{26.71} ₅₅₇₉	—

Recapitulation.

MATERIAL.	Pounds.	Cost.	HORSES PER DAY.		Number of Horses Fed.
			Cost.	Fed out, Pounds.	
Hay.....	1,549,962	\$12,426 39	\$0.1325567	16532558	Sanitary Division, 72,571
Oats.....	1,394,500	13,047 29	.13	14933544	Street Cleaning Division, 19,257
Shorts.....	34,150	270 25	270225	341500	Superintendent of Streets, 1,057
Straw.....	237,574	1,861 06	.01	237574	Purchasing Agent, horses
Corn.....	96,208	674 46	67446	12664	purchased but not assigned, 659
Carrots.....	11,300	64 98	6498	13300	93,544
Salt.....	1,490	5 25	525	93544	Average per day:
English Vegetable Food, 57½ bbls.	.....	862 50	86250	.....	Sanitary Division, 199
Totals.....	3,325,184	\$29,212 18	\$0.3121354	3551144	Street Cleaning, 81
				933544	Superintendent of Streets, 5
					Purchasing Agent, horses
					purchased but not assigned, 2
					Total, 287

72,571 Sanitary horses (average number per day).....199
 19,257 Street Cleaning horses (average number per day).....81
 1,057 Superintendent of Streets horses (average number per day).....5
 659 unassigned horses (average number per day).....2

 93,544 horses (average number per day).....287

{ \$22,662 67
 6,013 63
 330 08
 205 80

 \$29,212 18

at \$.3121354
 933544 =

PLANT AND PROPERTY IN CHARGE OF THE SANITARY DIVISION.

South City Stables, Shops and Sheds.

Situated on Albany street, opposite Newton street. The lot belonged to the city before being used for this purpose, and contains 90,780 feet.

The stable and buildings connected therewith are of brick. There are also on the premises five wooden sheds, used for storing wagons, etc. The stable is two stories high, with French roof, and has accommodations for 100 horses. Twenty-three horses are kept in sheds. Total original cost, exclusive of land, \$79,089.23.

Connected with stables are blacksmith, wheelwright, paint and harness-makers' shops, in which the wagons, carts, harnesses, etc., used by the department are constructed and kept in repair; also a horseshoeing shop for shoeing the horses of the department located in this section of the city.

Offal Depots.

Erected in 1864, on the wharf fronting on Albany street, opposite Brookline street, on the other side of the dock from that used by the Paving Division. The lot which the building occupies and the yard attached to the same contains 39,511 feet, and belonged to the city before being used for this purpose. Total original cost of building \$18,578.89. This building is used for the deposit of house-offal daily collected in the city carts, and from which it is thence conveyed without the city limits by purchasers.

West Stable and Sheds.

The stable is a brick building, a story and a half high, 128 feet by 50, located on North Grove street, built in 1860, with suitable out-buildings attached to the same. It has accommodations for 83 horses, in stables and sheds. The lot contains about 45,152 square feet. On May 11, 1896, a horseshoeing shop was established for the purpose of shoeing the horses of the department stabled in this section of the city.

Highland Stable.

With accommodations for 72 horses, on the old Almshouse lot, Highland street, containing 81,082 square feet. A part of this stable and adjoining lot is used by the Paving Division. There is on this lot a brick stable, which cost \$88,594.13. On this lot is an offal-shed, erected in 1875, at a cost of \$1,160.12.

During the year the stabling of horses in the basement of this building was abandoned and 15 stalls were placed in the second story of the building at a cost of \$3,000. April 1, 1897, the offal-shed erected in 1875 was abandoned, and renovated for the purpose of storing wagons and carts.

Charlestown Stable.

With accommodations for 25 horses, is situated on Rutherford avenue; lot contains 17,300 square feet of land; stable built in 1875, cost \$5,083.07; sheds and out-buildings built in 1879.

Fort Hill Wharf.

Containing 21,054 square feet, placed in charge of the Sanitary Division, used as a dumping station for the city's garbage and refuse, and as a landing place for scows, which convey this stuff to sea. There are two dumping-boats, known as the Barney dumping-scows, and these are in continual use for the above purpose, and are towed to sea by the Street Department steam tug boat "Cormorant." The tug boat is also used by the Sewer Division.

A portion of this wharf is used by the Street Cleaning Division as a locker for push patrol-carts, etc.; a part is in charge of the Paving Division, and a portion occupied by a tenant.

Gibson Street Plant.

Containing 42,000 square feet, and situated in Dorchester district, which has been used and occupied by the New England Construction Company for the treatment and disposition of offal, and which is now closed.

On September 3, 1897, the Street Cleaning Division commenced to feed and care for the horses belonging to that Division, and stabled at 650 Albany street and North Grove street.

The Sanitary Division still cares for the horses of this Division located at Rutherford avenue and Highland street, bearing a proportionate share of the cost of maintaining both of these stables.

All of the stables and sheds under the charge of this Division need thorough repairs, no extensive repairs having been made for years, and a special appropriation for this purpose should be granted by the City Council.

Number of Carts and Wagons Collecting House-dirt and Ashes and Offal.

Offal wagons in use by the Sanitary Division	104	
" " " " " Thomas Mulligan, East Boston	6	
" " " " " David B. Morrill, Brighton	3	
" " " " " John Bradley, Dorchester	6	
" " " " " G. T. Barnes, West Roxbury	3	
	<hr/>	122
Ash carts in use by the Sanitary Division	172	
" " " " " Wm. F. Hedrington, East Boston	6	
" " " " " J. J. Moore, West Roxbury	3	
" " " " " John McShane, Dorchester	5	
" " " " " Denis Flynn, Dorchester	5	
Market wagons owned by the Sanitary Division	12	
	<hr/>	203
Total		325

ORGANIZATION.

1 deputy superintendent.	5 feeders.
5 clerks.	6 messengers.
7 foremen.	9 stablemen.
1 captain of scows.	9 yardmen.
11 sub-foremen.	25 dumpers.
15 inspectors.	4 dumping-boat men.
32 mechanics.	214 ash-cart drivers and helpers.
3 tallymen or aids.	138 offal-cart drivers and helpers.
5 watchmen.	

Total, 490 employees.

APPENDIX E.

REPORT OF THE DEPUTY SUPERINTENDENT OF
THE SEWER DIVISION.

30 TREMONT STREET,
BOSTON, February 1, 1898.

MR. BENJAMIN W. WELLS,
Superintendent of Streets:

DEAR SIR: I respectfully submit report of the expenses, income and operations of the Sewer Division for the financial year ending January 31, 1898.

Yours truly,

CHARLES R. CUTTER,
Deputy Superintendent.

The Sewer Division has charge of the following work:

1. Construction and maintenance of all sewers and catch-basins.
2. Completion and maintenance of the Main Drainage Works.
3. Construction and maintenance of the channels of Stony brook.
4. Construction and maintenance of street culverts and surface drains.
5. Preparation of plans and the engineering and supervision required in the construction and maintenance of all work connected with the division.
6. Investigation of complaints in regard to defective sewerage and surface drainage.
7. Granting of permits for all connections to be made with the common sewers, and the custody of bonds filed by drain layers authorized to make such connections.
8. Levying of assessments on estates benefited by the construction of sewers.

The following table shows the maintenance appropriation of this division for the past ten (10) years :

1888	.	.	.	.	.	\$261,361 00
1889	.	.	.	.	.	268,230 00
1890	.	.	.	.	.	347,000 00
1891	.	.	.	.	.	350,000 00
1892	.	.	.	.	.	350,000 00
1893	.	.	.	.	.	350,000 00
1894	.	.	.	.	.	320,000 00
1895	.	.	.	.	.	300,000 00
1896	.	.	.	.	.	280,000 00
1897	.	.	.	.	.	300,000 00

A general statement of the work done during 1897, and work necessary to be done, is given in the succeeding pages :

SOUTH BOSTON.

During the past year B and Seventh-streets overflow, the sewer in Dorchester avenue, between B and D streets, and the sewer in Dorr street have been completed.

The sewers in the following streets should be attended to in the immediate future :

B street, between Dorchester avenue and Fourth street, Dorchester avenue, between D and Dorchester streets, D street, between Dorchester avenue and Eighth street and Dexter and Ellery streets. The Mercer-street sewer should be enlarged, and a beginning made on the Kemp-street outlet, and as much of this as lies in the proposed location of Columbia road will have to be built immediately.

Sewers in the following streets should receive attention during the coming year :

From D street to B street, Silver street from B to Dorchester streets, Bolton street from B to Dorchester streets. Although there are many others in poor condition which should be rebuilt, those above mentioned are the most troublesome.

CHARLESTOWN AND EAST BOSTON.

The work on the connections with the North Metropolitan sewer in Charlestown and East Boston should be continued and completed during this coming year.

The building of a new outlet of ample dimensions to relieve the territory in the vicinity of Tibbetts town way, the rebuilding of the Beach-street outlet and sewer in Cambridge street (which should be done previous to the raising of the grade of Cambridge street) and the rebuilding of the Rutherford-avenue sewer will constitute the work in Charlestown.

In East Boston the rebuilding of the Porter street and Putnam street outlets should be attended to this year.

During the past year the following connections with the Metropolitan sewer have been made in Charlestown :

Chelsea street at Vine street, Chelsea street at Medford street, Rutherford avenue near Miller street; the Rutherford-avenue sewer from outlet near Miller street to Chapman street has been rebuilt to proper size, replacing an old broken-down sewer.

The connections which have been made during the past year in East Boston are : Marginal street at Ruth street, Marginal street at Cottage street, Porter street at Bremen street, Border street at Eutaw street, Border street at Lexington street, Border street near Decatur street, Sumner street at New street, Cottage street at Maverick street, Lamson street at Maverick street, Jeffries street at Maverick street, Sumner street at Jeffries street.

BRIGHTON.

The sewer for Cambridge street, between Seattle and North Harvard streets, has been built, and the remainder, between Seattle street and the Charles river, started. This sewer will be completed early in the coming year. Sewers have also been built in Strathmore road, Sidlaw road, between Commonwealth avenue and Chiswick road, Chiswick road, between Sidlaw road and Chestnut Hill avenue, Washington street, between Nantasket avenue and Commonwealth avenue. Commonwealth-avenue outlet, between Lake street and Commonwealth avenue, was finished this year. One of the most important undertakings in Brighton this coming year will be the sewerage of the Aberdeen district, which should be sewerage on the separate system; both house sewers and surface drains being built at the same time, inasmuch as the house sewer will have to find an outlet through the Brookline system, which is, in this neighborhood, a strictly separate system.

WEST ROXBURY.

In the Mt. Hope district 8,113 linear feet of pipe sewers on the separate system have been built. During the coming year the system should be completed by the building of the surface drains and improvement of the brick channels which traverse this district. The Perkins-street sewer, between Jamaica way and Centre street, has been completed.

In the neighborhood of West Roxbury and Spring-street stations and the New York, New Haven & Hartford Railroad there are large areas which have for a long time been partially developed. It is probable that during the coming year a large amount of sewer building will be done in this part of West Roxbury, owing to the completion of the Neponset-valley Metropolitan sewer through this territory. These sewers will be on a strictly separate system, and will require long outlets, varying from 2,500 feet to 7,000 feet in length.

This work should be undertaken and carried on as rapidly as possible, as the cesspools from the houses now drain in the neighborhood of the Brookline pumping-station.

The proposed abolition of grade crossings at Roslindale and Spring-street stations will necessitate some changes in the surface-drainage system at these points, and at the former point will allow proper development of the sewer system for the Hewlett-street district, which has been held back on account of these proposed changes.

DORCHESTER.

In the Forest-avenue and Lauriat-avenue districts the following streets and parts of streets have been sewerred :

Evans street, the southerly end of Nelson street, the southerly end of Fuller street, Fairmount street, and parts of Capen, Selden and Morton streets, Lauriat avenue, Chapman avenue, Birch street, Oak terrace, Mountain avenue, Dumas street, Mascot avenue, Willowood street, a part of Ballou avenue, Rosseter street and outlets.

The following streets remain to be sewerred, and should be attended to the coming year :

Corbet street, Hopkins and Dyer streets, the southerly ends of Selden and Fuller streets, the northerly end of Nelson street, Norfolk and Maxwell streets, the remainder of Morton street, West Selden street, Carlos and Don streets, part of Lauriat avenue near the railroad station, Lauriat street, Tucker street, Lyons street, Jones avenue, Middleton avenue, remainder of Ballou avenue and Morton street, and a part of Norfolk street.

In the Dorchester Lower Mills village the following streets are well settled, and should be provided with sewers :

Monson street, River street, part of Temple and Morton streets, part of Dorchester avenue, Bellows place, Idaho street, Avondale place, part of Codman street and Cedar street.

In the neighborhood of Talbot avenue the following streets remain to be sewerred :

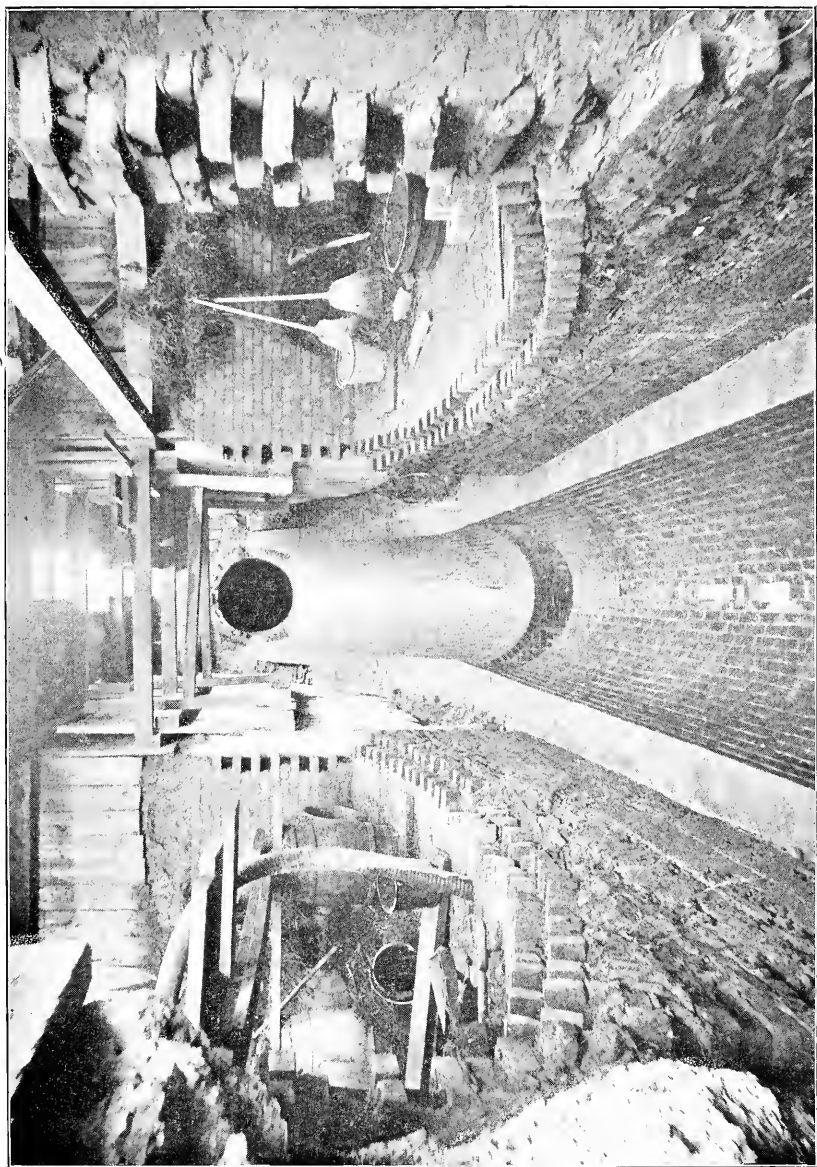
Bernard street, Spencer street, Millet street, Clarence place, Melbourne street, Wrentham park, Torrey street, Waterlow street, Peverell street and Hewins street.

In the northern part of Dorchester, work on the Columbia-road boulevard will be pushed to completion. A new sewer system will be constructed for the northern half of Savin Hill, including the portion of Savin Hill avenue between the railroad and Grampian way.

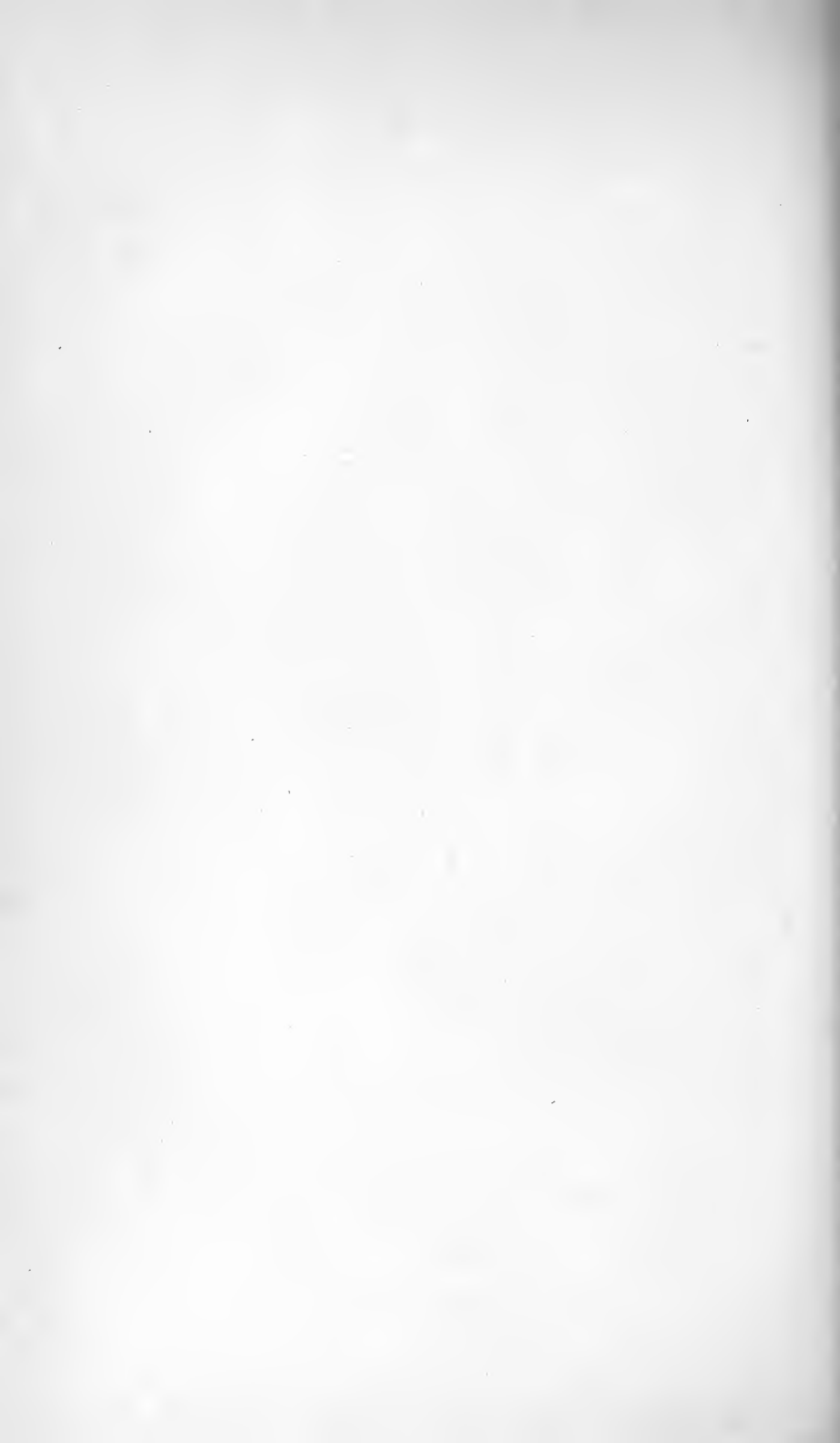
The Rosemont and Mill streets main sewer will be carried on in connection with the building of the covered channel for the southern branch of Tenean brook.

ROXBURY.

About 2,100 feet of the West Roxbury low-level sewer has been built this year, and the sewer system on Columbus avenue, between the Roxbury crossing and Dimock street, is in progress, and will be completed at an early date. The Dorchester-brook sewer has been extended from Norfolk avenue to Clifton street.



DORCHESTER INTERCEPTING SEWER—SIPHON UNDER TENEAN CREEK CONDUIT.



In all probability no further construction will be necessary on this sewer for a number of years.

The long-needed rebuilding of Harrison avenue main sewer has been nearly completed this year, and the building of this sewer will enable the city to rectify the sewer system of the adjacent territory. Sewer systems have been built in Peterborough street and in Parker, Turner and Norway streets.

The coming year the sewer in Hemenway street, formerly Parker street, will have to be rebuilt between Norway street and the passageway south of Boylston street. This is a continuation of the work of last year, when this sewer was rebuilt from Westland avenue to Norway street. The building of this sewer will enable the city to rebuild the pipe-sewer in the before-mentioned passageway, which has been a source of endless trouble and annoyance. The sewer system of the proposed Ipswich street will be completed the coming year, and at its southerly end a connection will be made with the brick sewer in Boylston street, between Hemenway street and the Parkway. This latter sewer has settled so badly that a portion of it pitches the wrong way; but by making the proposed connection it will be drained out by the Ipswich-street sewer, and will not have to be rebuilt.

It is hoped that the division will be able to build the house-sewers, recommended in several previous reports, on the sides of the old Stony-brook channel, between Huntington avenue and Elmwood street, in connection with the rebuilding of this old channel.

The Muddy-river conduit in Brookline avenue should be repaired, and a considerable portion of it rebuilt. This will be a very expensive work. A surface-drain should be built in Heath street, between Huntington avenue and Lawn street.

When the Huntington-avenue boulevard was completed, this surface-drain was started and carried to the line of the avenue. It should be completed the coming year, as the Heath-street sewer is entirely inadequate to take the floods of surface-water which come down this street.

The sewer system in the new avenue called South Huntington avenue has been built on the separate system, in anticipation of the building of this surface-drain in Heath street, and the catch-basin drain on the new avenue has been connected temporarily with the sewer in Heath street, which, of course, increases the flood of water in the latter sewer.

The relief-sewer for the Notre Dame-street district will be completed the coming year. This sewer was carried up as far as the line of Columbus avenue at the relocation of Dimock street, and left there for the purpose of further extension when Columbus avenue was built.

This sewer will, when completed, relieve the Notre Dame-street district, which has suffered for many years from floods of surface-water. The sewer in Haskins and Benton streets will be

rebuilt, and the overflow or surface-drain for the Vila-street district should be built, if arrangements can be made with the Park Department for the location of the same, and also for paying a portion of the expense of building.

CITY PROPER.

The Canal-street relief sewer was begun last year in Central street and has been carried on through India and Commercial streets, and part way through Clinton street. This will be carried on the coming year, and probably completed to the connection with the Canal-street sewer, near Causeway street.

The route of this sewer, which was projected through Clinton and Blackstone streets and Haymarket square, has been changed on account of the fact that the Rapid Transit Commission have determined to build a subway in Hanover street. The grade of this subway will be so low that it will be necessary to build a siphon on the Canal-street relief sewer if it crosses Hanover street at Blackstone street.

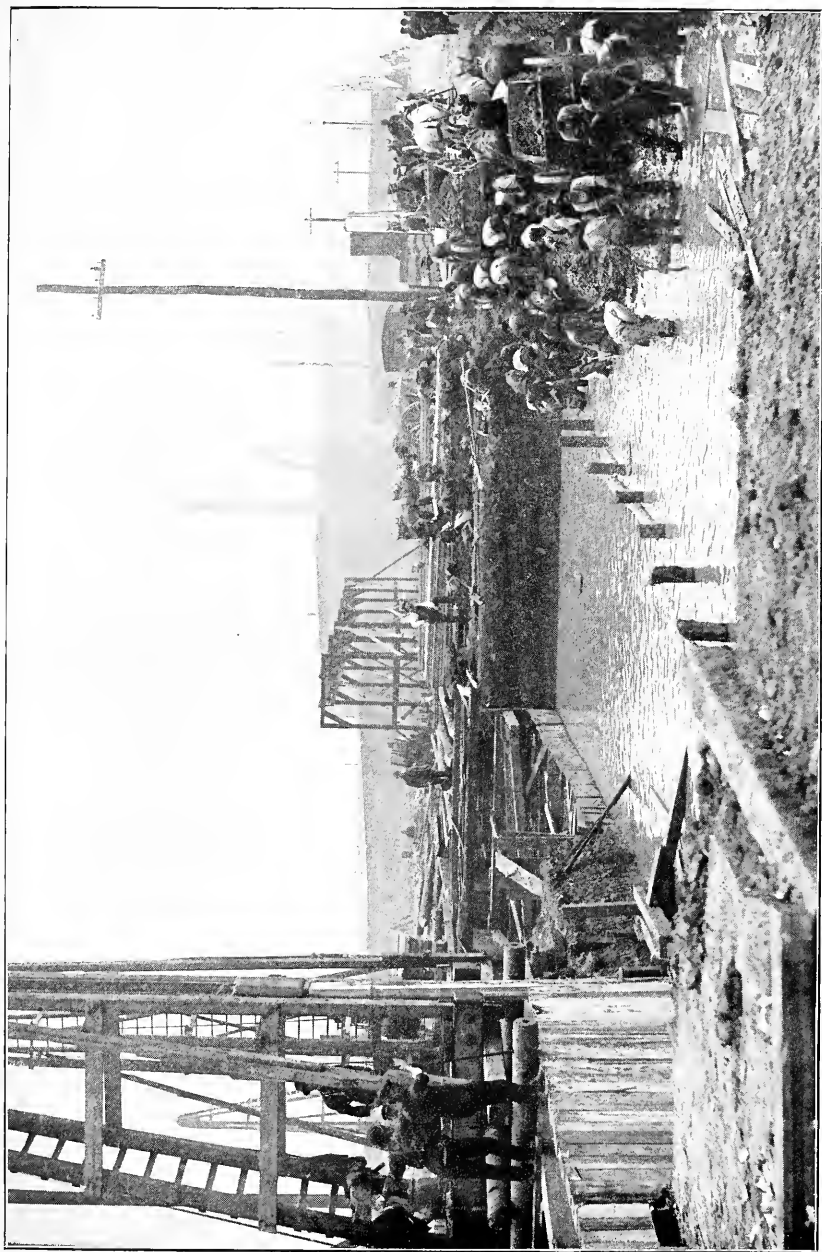
The route has therefore been changed, and this sewer will be carried from Clinton street, through Fulton and Cross streets to Haymarket square, for the reason that at the point where Cross street crosses Hanover street the proposed grade of the subway is high enough to allow the sewer to be carried under it without siphoning.

Sewers have been built in Atlantic avenue, thus removing the pollution from the Mercantile Wharf and adjacent docks; in Charles and Allen streets, relieving the condition of the sewer system in Brighton and Allen streets, and in South Market street and many other small streets.

The Rapid Transit Commission, in connection with other work, have rebuilt sewers in Adams square, Beacon and School streets, Cornhill, Hanover street, Tremont street and Tremont row and Washington street.

The building of the South Union Station has resulted in a general remodelling of the sewer system in this part of the city. The sewers in Beach, East, Essex and Summer streets have been combined and a new outlet sewer built in Summer-street extension.

About 700 feet of the interceptor in Cove street has been rebuilt and carried around the head house of the station, and a very large sewer built from Cove street across the Terminal Company's land, a short distance north of Mt. Washington avenue, which is designed to take the sewage of Kneeland and Harvard streets districts. On account of the low grade at which the railroad subway is designed across Mt. Washington avenue, this sewer had to be very much depressed. The crown of the sewer being at Grade 3, and as there was not sufficient weight of material over the sewer to resist tidal pressure, a particular form of construction was adopted, the arch of the sewer



KNEELAND STREET SEWER — DRIVING SHEET PILING.



being held down by bent rails which are carried over the sewer and bolted down on each side of the sewer to the pile caps underneath.

Future Work in this District.

The most important work which is contemplated for the coming year in the city proper, is the completion of the terminal sewers before mentioned, and continuing the large sewer under the railroad yard up Kneeland and South streets from the interceptor to Harvard-street sewer.

A district regulator will also be built on the interceptor near Summer street, and a regulator in Kneeland street, near Cove street, connecting with the interceptor by a small brick sewer in Kneeland street. At the request of the Terminal Company a portion of the intercepting sewer near the location of the gas-holders at Federal-street bridge will be rebuilt, in order to enable the city to abandon the portion of the existing interceptor which crosses under the proposed location of the Terminal Company's subway at this point. The house sewer will be built in the new Dorchester avenue between Summer street and Mt. Washington avenue. In other parts of the city the North Market-street sewer and the sewers in India, Milk and adjoining streets are in bad condition and should be rebuilt.

In Commercial street, near Clark street, the sewer system is old and excessively leaky, and must be remodelled and probably entirely rebuilt, as the tide rises and falls freely in these sewers at the present time.

The Legal Grade of Cellars.

This subject has been discussed in the report of 1896, but attention should be called to it again on account of its importance. The present legal grade, according to the building law, is Grade 12.

This is evidently founded on the assumption that the ordinary run of high tides is, on the average, up to Grade 10. While this is true there are very many tides which go above this point, and even up to Grade 14. It is not at all uncommon for the tide to reach Grade 12 at the same time that a rain storm is in progress. This of course is hard to overcome in designing sewers.

A sewer should be, if possible, of such a size that it will carry off the storm water without allowing the level of the water to get above that of the cellars. This is a theoretical impossibility whenever the tide reaches Grade 12.

The only device which could be adopted to help matters under these circumstances, is to build the sewer much larger than would be needed simply to convey the storm water, so that it will take a little while to fill up this extra space. In other words the sewers must provide a storage space.

This requirement results in a large increase in the cost of all sewers in tidal districts. The legal grade should be raised to Grade 14.

There is another aspect to this problem of the legal grade of cellars and that is, that, as at present established, this grade bears no relation to the grade of the street in which the sewer lies. It really only applies in tidal districts, for it would be absurd to suppose that it was intended to allow cellars on high land, perhaps 50 or 100 feet above tide water, to be carried down to Grade 12, and to impose any obligations upon the city to drain cellars to such unusual depth.

In addition to changing the legal grade from 12 to 14, the ordinance should be amended so as to establish a relation between the grade of the street in which the sewer lies and the allowable depth of cellars. This would be best founded upon custom, and probably the depth of 8 feet below the grade of the street would cover all ordinary cases. If such a grade were established then a builder, who chose to put in a cellar of unusual depth, would understand that he could not expect to find the sewer system low enough to drain him by gravity, and that he must provide means for raising his sewage by some form of pumping.

Control of House Connection.

As the law stands at present this division supervises only the connection of private drains with the sewer, and has no control over the laying of the drain from the sewer to the house. The drain-layer may or may not make good work of this portion.

This makes a difference to this division in many cases where the work is in wet ground, as it allows a large amount of leakage from ground water to find its way into the sewer system. If a drain is improperly laid it also results in trouble to this division, because when a drain becomes stopped up a complaint almost invariably is made that the public sewer in the street is stopped up and the owner of the house refuses to go to any expense on his private drain until the fact is demonstrated to him that the public sewer is in good condition.

This division should either build all private connections by day labor, or should have supervision over them from the sewer to the point where the Superintendent of Plumbing, under the building law, assumes control.

In this connection it should be noted that the inspectors of this division should have the right to enter buildings in order to find out from what houses matter deleterious to the sewers is being emptied, and to make tests, etc. These inspectors, together with the engineers, who have to enter many buildings to get the grades of sewers, should be furnished with badges, in order to assure the occupants of the buildings that they are properly authorized agents of the city of Boston.

Main Drainage.

In connection with the main drainage works, contracts have been entered into for the enlarging of the sewage storage reservoirs at Moon Island, the capacity of the old ones having been fully reached. A considerable improvement has been brought about at the pumping-station at the Cow Pasture, contracts having been let for the thorough overhauling of the present machinery, and also a contract made with Mr. E. D. Leavitt to design the new 72,000,000 gallons sewage pump; and the coming year will bring about changes of great value in the main drainage system.

Stony Brook.

The construction of that portion of Stony-brook channel lying between the gate-house on Pynchon street and the channel built by the New York, New Haven and Hartford Railroad, near Centre street, has been continued and nearly completed.

Agreement as to the Use of Sewers of the City of Boston.

The Board of Metropolitan Sewerage Commissioners, constituted under the authority of chapter 439 of the Acts of the year 1889, acting for the Commonwealth, and the Mayor of the city of Boston, acting for said city, authorized thereto by chapter 502, of the Acts of the year 1897, make the following agreement, viz. :

ARTICLE 1. Said board shall connect the Charles-river Sewerage System for the disposal of the sewage of the Charles-river Sewerage District, consisting of the cities of Waltham and Newton and the towns of Watertown and Brookline and a part of the city of Boston, with the sewer of the city of Boston at the corner of Gainsborough street and Huntington avenue in said city of Boston, and shall connect the Neponset Sewerage System for the disposal of the sewage of the Neponset Sewerage District, consisting of the towns of Dedham, Hyde Park, Milton, Westwood and a part of the city of Boston, with the sewers of the city of Boston at Granite bridge.

ARTICLE 2. The city of Boston shall discharge the sewage from said systems through its sewers and other works into the water at Moon Island.

ARTICLE 3. The Commonwealth shall pay to the city of Boston, for the use authorized by said last-mentioned act, of said city's sewers and sewerage works by the Charles-river Sewerage District, and for the discharge by the city of Boston of the sewage from said Charles River Sewerage District through said city of Boston's sewers and sewerage works, as follows, to wit :

(a.) For the year 1896, and for the year 1897 (to be paid in the month of January, 1898) the sum of twenty-eight thousand and seven (28,007) dollars for each year in addition to the sum already paid for each year.

(b.) For the year 1898 (to be paid in the month of January, 1899) the sum of forty-one thousand five hundred and fifty-nine (41,559) dollars; for the year 1899 (to be paid in the month of January, 1900) the sum of forty-one thousand five hundred and fifty-nine (41,559) dollars; for the year 1900 (to be paid in the month of January, 1901) the sum of forty-one thousand five hundred and fifty-nine (41,559) dollars; each of said sums to be increased by the amount of seventy-four (74) per cent. of one-fifth of the interest paid by the city of Boston on the cost of construction of all said sewers and works forming a part of such portions of said city of Boston's system of sewage discharge and works lying between Gainsborough street and the point of discharge into the water at Moon Island, as shall have been constructed after October 1, 1897, and prior to the month of January in which the payment is to be made; *provided, however*, that no part of the cost of construction of any sewer or work hereafter constructed which said board and said Mayor shall agree, or in case they cannot agree, which a third person selected by said board and Mayor shall find, ought not to be paid by the Commonwealth, shall be used in determining any such amount.

ARTICLE 4. The Commonwealth shall pay to the city of Boston for the use authorized by said last-mentioned act of its sewers and sewerage works for the Neponset Sewerage District and for the discharge by the city of Boston of the sewage from said Neponset Sewerage District through said city of Boston's sewers and sewerage works as follows:

(a.) For the year 1898 (to be paid in the month of January, 1899) the sum of sixteen thousand three hundred and eleven (16,311) dollars; for the year 1899 (to be paid in the month of January, 1900) the sum of sixteen thousand three hundred and eleven (16,311) dollars; for the year 1900 (to be paid in the month of January, 1901) the sum of sixteen thousand three hundred and eleven (16,311) dollars; each of said sums to be increased by the amount of twenty-six (26) per cent. of the interest paid by the city of Boston on the cost of construction of all said sewers and works forming a part of such portions of said city of Boston's system of sewage discharge and works lying between Gainsborough street and the point of discharge into the water at Moon Island, as shall have been constructed after October 1, 1897, and prior to the month of January in which the payment is to be made; *provided, however*, that no part of the cost of construction of any sewer or work hereafter constructed which said board and said Mayor shall agree, or in case they cannot agree, which a third person selected by said board and Mayor shall find, ought not to be paid by the Commonwealth, shall be used in determining any such amount.

ARTICLE 5. The Commonwealth shall pay to the city of Boston for the year 1901, and for each and every year thereafter for the use aforesaid by each of said districts, such sum as shall be determined in accordance with the provisions of chapter 502 of the Acts of the year 1897.

ARTICLE 6. If other provision for the discharge of said sewage from said Charles-river Sewerage District and said Neponset Sewerage District, and payment therefor, shall in any year after the date hereof be made by act of the Legislature of the Commonwealth, the compensation for that year shall be such as the Legislature shall provide in such act, and the compensations, if any, provided for in this agreement for subsequent years, shall be null and void.

Signed this December thirty-first, 1897.

COMMONWEALTH OF MASSACHUSETTS,

By HOSEA KINGMAN,

TILLY HAYNES,

GEORGE A. KIMBALL,

Board of Metropolitan Sewerage Commissioners.

CITY OF BOSTON,

By JOSIAH QUINCY,

Mayor.

FINANCIAL STATEMENT.

Sewer assessments have been made by this division for the year ending January 31, 1898, in accordance with chapter 402 of the Acts of 1892, and amendments thereto, to the amount of \$39,534.95, and the bills have been deposited for collection with the City Collector.

Bills for sewer assessments amounting to \$2,738.40 have also been deposited for collection, representing those estates assessed under chapter 456 of the Acts of 1889, and amendments thereto, which have been connected with the public sewers during the year; making the total amount of assessments deposited for collection, \$42,273.35.

There remain on the books of this division, at 5 per cent. interest, \$25,308.24, representing the assessments under the Acts of 1889, and amendments thereto, for those estates which have not been connected with the sewer for which they were assessed, and bills for which will be deposited for collection as the connections are made. This sum represents 19.5 per cent. of the total assessments made under those acts.

Entrance fees to the amount of \$3,338.24 have been collected from estates upon which no sewer assessment was ever paid, in accordance with chapter 36, section 10, of the Revised Ordinances.

Permits have been issued to licensed drain-layers to make 4,194 connections with the public sewers, and the work done under these permits has been inspected, and a record of the same made on the plans of this division.

The following tables and statements will show the amount of money expended and work done by this division during the year :

Financial Statement.

APPROPRIATIONS.	Balances on hand February 1, 1897.	Appropriations and income added during year.	Total Credits.	Expenditures during the year.	Balances on hand January 31, 1898.
Street Department, Sewer Division	* \$292,862 71	† \$2,659 54	\$295,522 25	\$295,522 25	.....
Laying Out and Construction of Highways (Sewer Construction) .....	.....	196,199 39	196,199 39	196,199 39	.....
Blue Hill and other avenues (Sewer Construction) .....	.....	40,853 22	40,853 22	40,853 22	.....
Sewerage Works.....	.....	500,000 00	500,000 00	464,830 00	\$35,170 00
Stony Brook Improvement .....	.....	400,000 00	401,849 26	260,741 16	141,108 10
Back Bay outlet (\$5,000, all transferred).	1,849 26	.....	.....	.....	.....
Canal-st. relief sewer	17,462 03	.....	17,462 03	17,462 03	.....
Connection with Metropolitan Sewer, Charlestown	20,630 36	.....	20,630 36	20,630 36	.....
Connection with Metropolitan Sewer, East Boston	19,125 67	.....	19,125 67	19,125 67	.....
D-st. outlet and relief sewer, Dorchester ave	23,000 00	.....	23,000 00	23,000 00	.....
Dam from Maverick st. to Prescott st., East Boston	† 3,000 00	.....	3,000 00	.....	3,000 00
Forest-avenue Section, temporary sewer, outlet, etc.....	1,314 94	.....	1,314 94	1,314 94	.....
Pumping Station Improvements	4,982 25	.....	4,982 25	4,982 25	.....
Sewer outlet, Porter st. (\$16,000, all transferred).	.....	.....	.....	.....	.....
Sewer outlet, low level, West Roxbury District	3,181 07	.....	3,181 07	3,181 07	.....
Sewer outlets, South Boston	16,104 92	.....	16,104 92	16,104 92	.....
Sewers, South Boston	794 71	.....	794 71	794 71	.....
Shamrock-st. outlet	7,041 95	.....	7,041 95	7,041 95	.....
Storm Sewers, Cornwall and Washington sts.....	596 48	.....	596 48	596 48	.....
Totals	\$411,946 35	\$1,139,712 15	\$1,551,658 50	\$1,372,380 40	\$179,278 10

In addition to the above there was expended on account of Paying Division, for sewer and catch-basin work, necessitated by Street Construction, the sum of \$3,992.24; also for sewers necessitated by the construction of South Union Station, \$87,984.59, making a total of \$1,464,357.23.

* Original appropriation..... \$229 67
 Less transferred..... 2,429 87
 \$2,659 54

† Transferred from sewer outlet, Porter street.

OBJECTS OF EXPENDITURE.

IMPROVED SEWERAGE.

Pumping-station, inside	\$48,188 22
Pumping-station, outside	11,631 42
Engines and boilers	20,372 51
Main and intercepting sewers	24,145 02
Moon-Island maintenance	10,094 42
Moon-Island reservoir extension	455 26
Tow-boat	\$8,567 50
Less paid by Sanitary Division	7,155 74
	<hr/>
	1,411 76
	<hr/>
	\$116,298 61

PUMPING-STATION, FOREST-AVENUE SECTION, DORCHESTER.

Maintenance	\$7,585 01
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STONY BROOK.

Maintenance	\$13,798 55
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STONY BROOK IMPROVEMENT.

Salaries	\$20,419 39
Damages New England Brewing Company	17,915 66
Water furnished Boston Belting Company	5,677 20
Section 5	65,031 70
Section 6	6,295 26
Section 7	66,438 30
Connections at gate-house, Cedar and New Heath streets	40,345 50
Connection at Centre and Old Heath streets	16,860 58
Connection in private and city land at railroad	7,715 70
Forebay and gate-house connections	10,533 08
Miscellaneous	3,508 79
	<hr/>
	\$260,741 16

MISCELLANEOUS.

Office expenses, Administration, Permit and Record offices, including salaries	\$29,902 27
Office expenses, Engineering Division, including salaries	81,911 12
Current expenses of yards and lockers	26,661 46
Current expenses of stables, including cost of horses, vehicles, harnesses, etc.	\$35,295 47
Less amount earned by department teams	11,365 66
	<hr/>
	23,929 81
Repairing sewers	6,120 51
Cleaning and flushing sewers	10,681 96
Cleaning catch-basins	42,246 37
Repairing streets	607 69
	<hr/>
Carried forward,	\$222,061 19

<i>Brought forward,</i>	\$222,061 19
Building, repairing and cleaning culverts and surface drains not included in the Stony-brook System . . .	36,491 72
Examining condition of sewers and catch-basins . . .	6,860 79
Work for departments and others	2,013 64
House connections	5,510 55
Damages and claims	941 10
Holidays, not included elsewhere	22,637 44
Travelling and incidental expenses	5,804 84
Repairing department buildings, stables and yards . . .	972 94
Engines, boilers and repairs	723 65
General repairs	639 11
Smoke inspection	1,340 75
Alterations, No. 30 Tremont street	1,044 95
Balances on old accounts, Pierce Farm sewer	492 02
Dredging Frost's dock, Neponset	320 06
Hardware, tools and blacksmithing, not included elsewhere	7,868 65
Rubber goods, not included elsewhere	1,635 07
Tools and supplies at storehouse, property of Central Division, but bought by Sewer Division	977 54
	<hr/>
	\$318,336 01

STREET DEPARTMENT — SEWER DIVISION.

257

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
B st.	Dorchester ave. and Broadway	119.00	5 ft. X 6 ft. 6 in., brick ..	Rebuilding (day labor),	\$2,391 86
B and Seventh sts. outlet . . .	Dorchester ave. and South Bay	457.61	6 ft. 6 in., circular brick..	Rebuilding (day labor),	18,739 08
Covington st.	East Eighth st. and Thomas park	290.30	12-in., pipe.....	Day labor	1,240 23
D st.	Dorchester ave. and Eighth st.	47.61	3 ft. 6 in. X 3 ft. 8½ in., brick.....	Rebuilding (day labor),	26,769 19
		1,602.05	4 ft. 9 in. X 5 ft. ¼ in., brick.....	Day labor	
Dorchester ave. . .	B st. and Dorr st.....	93.50	3 ft. 6 in. X 3 ft. 8½ in., brick.....	Day labor	449 05
Dorchester st.	Second st. and Emerson st....	244.60	12-in., pipe.....	Day labor	4,723 35
Dorr st.	Dorchester ave. and Ames st.	597.23	30 in. X 36 in., brick.....	Day labor	437 03
First st.	O st. and N st.....	274.65	15-in., pipe.....	Day labor	914 29
Fourth st.	I st. and Jay st.	248.58	15-in., pipe.....	Contract; rebuilding..	3,067 09
H st.	Eighth st. and tide-water ...	110.00	10-in., pipe.....	Contract; rebuilding..	277 18
N-st. outlet	Existing sewer and tide-water	208.00	5 ft., circular brick	Rebuilding (day labor),	1,266 43
Tudor st.	F st. and Dorchester st.....	39.00	3 ft. X 4 ft., brick	Day labor (slate rock) ..	1,302 71
Q-st. outlet	Sixth st. and tide-water.....	166.00	12-in., pipe	Day labor; rebuilding,	
			2 ft. 6 in., circular brick .		
	Total	4,855.27			\$61,577 49
	7 new catch-basins built, and catch-basin repairs				3,994 52
					\$65,572 01

South Boston.—*Concluded.**Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.*

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
N-st. outlet. . .	Existing sewer and tide-water	70.00	3 ft. X 4 ft., brick 12-in., pipe. 12-in., pipe.	Built by the Park Department.
Ninth st.	Existing sewer and L st. . . .	89.72		
Vale st.	Mercer st. and Dorchester st.	749.91		
Total		909.63		

East Boston.*Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.*

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Ashley ave.	Bennington st. and Breed st.	728.16	2 ft. X 3 ft., brick	Contract.	\$4,915 98
Border st.	Connection with Metropolitan sewer near Decatur st. .	.....		
Border st.	Connection with Metropolitan sewer at Eutaw st.	18.45	15-in., pipe.	1 tide-gate manhole . . . 1 sump manhole . . . 1 regulator manhole . . 1 overflow manhole . . . 1 tide-gate manhole . . .	4,036 15 3,207 97

Border st.....		24.03	12-in., pipe.....	1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Contract.....	3,620 78
Bremen st.....	Existing sewer and Putnam st.	325.23	12-in., pipe.....	1 tide-gate manhole.....	738 99
Brooks st.....	Overflow at Bremen st.....			1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. 1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	701 36
Cottage st.. ..	Connection with Metropolitan sewer near Maverick st.	23.30	12-in., pipe.....	1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. 1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	3,179 76
Jeffries st.....	Connection with Metropolitan sewer at Maverick st....	7.50	12-in., pipe.....	1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	3,142 55
Liverpool st.....	Decatur st. and Central sq....			1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	17 94
Lamson st.....	Connection with Metropolitan sewer at Maverick st....			1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	2,708 08
Meridian st.....	Condor st. and Chelsea bridge			1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	31 33
Marginal st.....	Connection with Metropolitan sewer at Ruth st.....			1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	359 79
Porter st.....	Connection with Metropolitan sewer at Bremen st....			1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	22 54
Sumner st.....	Connection with Metropolitan sewer at Jeffries st....	13.50	12-in., pipe.....	1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Built in 1896.....	1,139 85
Sumner st.....	Connection with Metropolitan sewer near New st.....	27.80	12-in., pipe.....	1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Contract.....	3,115 11
Wordsworth st...	Saratoga st. and Pope st.....	{ 750.30 461.97	15-in., pipe..... 12-in., pipe.....	1 sump manhole..... 1 regulator manhole.. 1 overflow manhole.. 1 tide-gate manhole.. Contract.....	913 19
Total			2,380 24	.....	\$31,850 87
18 new catch-basins built, and catch-basin repairs.				.....	2,447 77
				.....	\$34,298 64

East Boston. — Concluded.*Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.*

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Bayswater st....	Butler ave. and Austin ave..	999.64	12-in., pipe.	
Butler ave.....	Saratoga st. and tide-water..	304.21	12-in., pipe.	
Collins st.....	Bayswater and Washburn sts.	775.44	12-in., pipe.	
Thurston st.....	Butler ave. and Bayswater st.	560.25	12-in., pipe.	
		2,639 54		

Charlestown.*Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.*

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Chelsea st.....	Connection with Metropolitan Sewer at Vine st.....	.....	.....	{ 1 sump manhole.... 1 regulator manhole. 1 overflow manhole. 1 tide-gate manhole. }	\$2,817 98

Chelsea st.	{	23.30	24-in., pipe.....	{	1 sump manhole.....	4,793 37
	{	190.83	10-in., pipe.....	{	1 regulator manhole.	
				{	1 overflow manhole.	
Russell st.		210.22	12-in., pipe.....		1 tide-gate manhole.	915 00
					Rebuilding.....	
Rutherford ave...	{	46.00	6 ft. 6 in., circular brick.	{	Rebuilding.....	
	{	45.00	3 ft. 9 in., circular brick.	{	1 sump manhole.....	11,051 58
		10.00	24-in., pipe.....		1 regulator manhole.	
		38.00	18-in., pipe.....		1 overflow manhole.	
Rutherford ave...		255.00	3 ft. 9 in., circular brick..		2 tide-gate manholes.	4,597 93
					Rebuilding	
3 new catch-basins built, and catch-basin repairs.....		818.35				\$24,175 81
						637 02
						\$24,812 83

Brighton.

Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

Berwick road	Commonwealth ave. and Chiswick road.....	424.43	12-in., pipe.....	Contract; considerable rock	\$2,481 89
Brooks st.....		500.19	15-in., pipe.....		2,397 11
Cambridge st, No. 2		349.12	12-in., pipe.....		
Cambridge st, No. 1		602.93	30-in. X 36-in., brick ...		2,652 85
Chiswick road ...		232.80	15-in., pipe.....		3,342 26
		350.00	30-in. X 36-in., brick		
		399.81	12-in., pipe.....		1,901 82
		215.72	10-in., pipe.....		

Brighton. — *Continued.*
Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Commonwealth ave.....	Strathmore road and Berwick road.....	256.23	12-in., pipe.....	.....	\$486 07
Commonwealth ave.....	Sidlaw road and Strathmore road.....	229.15	12-in., pipe.....	Contract; some rock.	529 94
Commonwealth ave.....	Foster and Lake sts.....	20.90	12-in., pipe.....	Connection with outlet; rebuilding.	179 61
		439.22	18-in., pipe.....	.....	4,120 71
		235.85	15-in., pipe.....	.....
		631.03	12-in., pipe.....	.....
Dunboy st.....	Faneuil st. and Bigelow st.....		.....	Built in 1896.....	94 40
Hobart st.....	.....		.....	.....
Lincoln st.....	200 ft. west of Waverly st. and Waverly st.....	199.05	12-in., pipe.....	Rebuilding.....	289 66
Mt. Vernon ave.....	Rockland st. and end of ave.....		.....	Built in 1896.....	126 57
North Beacon st.....	Everett st. and Union sq.....	399.82	12-in., pipe.....	Considerable ledge.....	1,747 23
North Harvard st.....	Coolidge road and Hopetale st.....		.....	.....
Private land and Newton st.....	Parkman st., Brooks st. and Bigelow st.....		.....	Built in 1896.....	55 25
	Mt. Vernon st. and Jackson ave.....	158.15	15-in., pipe.....	.....	3,645 69
		480.83	12-in., pipe.....	.....
Rockland st.....	.....	190.00	12-in., pipe.....	Contract, ledge.....	2,019 97
Rockland st.....	Mt. Vernon st. and Mt. Vernon ave.....		.....	.....
Sidlaw road.....	Mt. Vernon st. and Mt. Vernon ave.....		.....	Built in 1896.....	83 47
	Commonwealth ave. and Chiswick road.....	397.78	12-in., pipe.....	A large amount of rock,	3,985 85

Strathmore road..	Sutherland road and Commonwealth ave.....	962.56	12-in., pipe	Considerable water, ledge and boulders..	2,222 17
Strathmore road..	Commonwealth ave. and Chestnut Hill ave.	185.00	12-in., pipe	Contract; nearly all rock	146 52
Salt Creek outlet.	Metropolitan sewer and B. & A. R.R.	475.00	2-ft. 8-in. X 4-ft., brick..	Rebuilding	5,230 35
Union st.	Shepard st. and Winship st..	297.55	12-in., pipe	All ledge	2,554 97
Washington st....	Nantasket ave. and Commonwealth ave.....	750.00	15-in., pipe.....	Large amount of rock, Contract; some rock...	4,404 19
Webster st.	Off Cambridge st.....	481.70	12-in., pipe		1,852 14
Western ave.....	Everett st. and North Harvard st.	525.13	24-in., pipe.....		
		311.59	18-in., pipe.....		
		248.34	15-in., pipe.....		3,766 88
		414.35	12-in., pipe.....		
Western ave.....	Everett and Waverly sts.....	.....	.....	Built in 1896.....	1,026 60

Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Commonwealth ave., outlet....	Lake st. and Commonwealth ave.	<div> <div>1,606.79</div> <div>24.00</div> <div>229.39</div> <div>1,171.30</div> <div>169.00</div> <div>1,117.69</div> </div>	<div> <div>2 ft. 6 in., circular brick.</div> <div>30-in., iron pipe.....</div> <div>18-in., pipe.....</div> <div>12-in., pipe.....</div> <div>15-in., pipe, C. B. drain..</div> <div>12-in., pipe, C. B. drain..</div> </div>	.....	\$16,482 47
Commonwealth ave., Sect. No. 3 .....	.....	.....	.....	Built in 1896.....	66 65
Commonwealth ave. Sect. No. 5 .....	.....	.....	.....	Built in 1896.....	97 26

Brighton. — *Continued.*

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Malvern st.	Brighton ave. and Ashford st.	{ 370.35 99.41 644.37 58.86 }	{ 12-in., pipe..... 10-in., pipe..... 6-in., pipe, house drain.. 10-in., pipe, C. B. drain.. 5 catch-basins .....	..... ..... ..... ..... .....	\$461 69
Total .....		.....	.....	.....	\$68,452 24
50 new catch-basins and 1 drop-inlet built, and catch-basin repairs. ....		.....	.....	.....	9,964 15
					\$78,416 39

Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Allston Heights..	Cambridge st. and Ridg- mont ave.	203.90	12-in., pipe.	
Allston Heights..	Ridgmont ave. and end of Allston Heights.....	329.97	12-in., pipe.	

Antwerp st.	Western ave. and Lincoln st. .	1,185.84	15-in., pipe.	Built by Metropolitan Water Board.
Cambridge terrace	Cambridge st. and Webster terrace	665.60	12-in., pipe.	
Franklin st.	Allcott st. and Lincoln st. . .	299.32	10-in., pipe.	Built by Metropolitan Water Board.
Franklin st.	Raymond st. and 200 ft. northerly	262.01	12-in., pipe.	
Harvard ave.	Cambridge st. and Brighton ave.	245.07	12-in., pipe.	Built by Metropolitan Water Board.
Harvard ave.	200 ft. and 400 ft. north of Brighton ave.	771.08	12-in., pipe.	
Lincoln st.	Existing sewer and 170 ft. easterly	222.15	12-in., pipe.	Built by Metropolitan Water Board.
Maple ave.	Etna st. and George st.	170.16	12-in., pipe.	
Montfern ave.	Faneuil st. and Washington st.	196.47	12-in., pipe.	
Oak square ave. . .	Faneuil st. and Washington st.	777.66	12-in., pipe.	
Private st.	Off Everett st. near Cleveland st.	947.49	12-in., pipe.	
Quint ave.	Off Brighton ave.	176.63	10-in., pipe.	
Rockland st.	Jackson ave. and 100 ft. southerly	212.27	12-in., pipe.	
Telford st.	Western ave. and Charles river reservation	100.00	12-in., pipe.	
		335.25	12-in., pipe.	
<i>Surface drains built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.</i>				
Chiswick road ..	Fenwick road and 36 ft. easterly	37.00	10-in., pipe	Contract.
Commonwealth ave.	Sidlaw road and Strathmore road	129.25	18-in., pipe	
		33.28	12-in., pipe	Contract.
		101.10	10-in., pipe	

Brighton. — *Concluded.*

LOCATION.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Commonwealth ave.	Near Strathmore road.	223.75	30-in., pipe.	Contract.
Commonwealth ave.	Foster st. and Lake st.	34.00	12-in., pipe.	Connection with outlet; rebuilding.
Parsons st.	Washington st. and 200 ft. northerly	205.00	12-in., pipe.	Contract.
Private land.	Commonwealth ave. and Chiswick road.	583.79	24-in., pipe.	Contract; ledge and boulders.
		1,347.17		
<i>Culverts built between February 1, 1897, and February 1, 1898, by Private Parties.</i>				
Private land.	Off Commonwealth ave., near Harvard ave.	160.13	5 ft. × 6 ft., concrete.	

West Roxbury.

Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Anson st.....	.....	.....	.....	Just begun.....	\$5 50
Adelaide st.....	Boylston st. and Spring Park ave	275.22	12-in., pipe.....	.....
Florence-st. Dist.:	Florence st. and Sycamore st.,	769.05	12-in., pipe.....	All rock.....	1,959 51
Brook st.....	Florence st. and Allen st....	1,151.39	24-in., pipe.....		
Brown ave .....	.....	{ 616.78	15-in., pipe.....		
	.....	{ 392.27	12-in., pipe.....		
Florence st.....	Ashland st. and Blakemore st.,	{ 861.10	.....	
Private land....	Washington st. and Florence st	861.00	2 ft. X 3 ft., brick.....		
Prospect ave...	Sycamore st. and Brown ave.,	370.52	12-in., pipe.....		
Ridge st.....	Sycamore st. and Brown ave.,	{ 221.50	18-in., pipe.....		33,006 36
Sheldon st.....	Prospect ave. and existing sewer.....	{ 568.52	12-in., pipe.....		
Sherwood st....	Florence st. and Ashland st..	345.35	12-in., pipe.....		
Sycamore st....	Florence st. and Ashland st..	584.45	12-in., pipe.....		
	.....	{ 445.94	18-in., pipe.....		
	.....	{ 924.48	12-in., pipe.....	A large amount of rock.	
Linnet st.....	Bellevue st. and 440 ft. south-westerly.....	488.42	12-in., pipe.....		1,051 71
Perkins st.....	Jamaicaway and Day st.	1,135.00	12-in., pipe.....		8,297 03
Private land....	At Brookside ave	110.39	10-in., pipe.....		238 37

West Roxbury. — Continued.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Private land, Mozart, Selwyn and Arundel sts....	Hewlett and Walter sts., and Centre st.....	{ 1.84 1,579.35 211.10 }	{ 18-in., pipe..... 12-in., pipe..... 12-in., pipe..... }	..... ..... .....	\$7,416 56 301 50
St. John st.....	Existing sewer and Centre st.,				
Selwyn st. and private land.....	Arundel st. and Walter st....	210.00	18-in., pipe.....	.....	745 92
Walk Hill st. and Bourne st.....	Wachusett st. and Patten st.,	518.05	12-in., pipe.....	.....	6,339 36
Washington st....	Forest Hills st. and Boylston st.	{ 325.25 220.26 }	{ 15-in., pipe..... 12-in., pipe..... }	Considerable rock.....	3,648 06
Woodside ave....	Washington st. and Forest Hills st.....	424.90	12-in., pipe.....	Contract.....	850 41
		13,562.13			
<i>Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.</i>					
Belmore terrace..	Boylston st. and Boylston terrace.....	{ 43.00 16.00 }	{ 10-in., pipe, C.B. drain.. 6-in., pipe, house drain.. 3 catch-basins..... }	All rock.....	\$523 91
	Total	59.00			\$64,384 20
27 new catch-basins built, and catch-basin repairs					2,105 15
					\$66,489 35

Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Crest st.....	Existing sewer and 210 feet westerly.....	210.50	12-in., pipe.	
Marion st.....	Florence st. and end of street, Washington st. and Walnut av.	413.46	12-in., pipe.	
Montebello road..	Eliot st. and Burroughs st...	175.00	12-in., pipe.	
Newsome Park...	Hyde Park ave. and Bourne st.....	221.08	12-in., pipe.	
Patten st.....	Elldridge road and Patten st..	689.53	12-in., pipe.	
Wachusett st....	Castleton st. and Perkins st..	313.17	12-in., pipe.	
Zamora st.....		621.22	10-in., pipe.	
		2,643.96		

Surface Drains built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

Hyde Park ave...	Stony brook and Weld Hill st.	391.05	18-in., pipe.	
<i>Surface Drains built between February 1, 1897, and February 1, 1898, by Private Parties.</i>				
Wachusett st.....	Eldridge road and Patten st.	223.47	12-in., pipe.	

Dorchester.

Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Birch st.....	Chapman ave. and Lauriat ave.....	289.86	12 in., pipe	Contract; some rock..	\$288 48
Branch ave.....	Existing sewer and private land	148.62	12-in., pipe .....	.....	707 93
Private land	Branch ave. and Arcadia st.. }	.....	.....	Built in 1896.....	1,680 13
Chapman ave. and private land.....	Lyons and Tucker sts.....	855.00	12-in., pipe	Contract; much rock,	2,821 43
Chapman ave.....	Existing sewer and Newhall st.....	100.00	15-in., pipe .....	.....	1,230 89
Coffey st. ....	.....	298.98	12-in., pipe .....	.....
Coffey st.	Intercepting sewer and private land	369.02	15-in., pipe .....	.....
Private land.....	Coffey and Ashmonts ts.....	222.39	15-in., pipe	Contract.....	2,473 15
Ashmont st.	Naponset ave. and Train st.. }	76.31	12-in., pipe .....	.....
Elmo st.....	Main sewer, westerly, toward Erie st.	990.43	12-in., pipe .....	.....
Evans st.	Capen st. and summit toward Nelson st.	99.00	12-in., pipe	Very much rock.....	840 91
Evans st.	Capen and Stanton sts.	171.22	12-in., pipe	Day labor	216 05
Evans st.	Morton and Nelson sts.	447.42	12-in., pipe	Contract; much rock,	1,424 75
Evans st. ....	.....	575.00	12-in., pipe	Contract; very much rock	2,964 17

Evans st.	Nelson st. and existing sewer at summit towards Capen st.	300.00	12-in., pipe.....	Some rock.....	588 05
Forest ave., Sect. 1, in Willowood st.	Lauriat ave. and Ballou ave.	133.41	15-in., pipe.....	Contract.....	1,096 03
Ballou ave.	Willowood and Norfolk sts.	.....	.....	Much rock.....	
Forest ave., Sect. 2, in Norfolk st.	Ballou ave. and private place,	.....	.....	.....
Private place and land.....	Norfolk st., Morton and Evans sts.	987.26	15-in., pipe.....	Very much rock.....	11,488 21
Morton st.	Evans st. and Selden st. ....	.....	.....	.....
Forest ave., Sect. 3, in Selden st.	Morton st. and passageway..	1,298.97	15-in., pipe.....	Some rock.....	
Passageway.....	Selden and Fuller sts. ....	.....	.....	.....
Fuller st.	Passageway and Capen st. ..	.....	.....	.....
Forest ave., Sect. 4, in Capen st.	Fuller and Norfolk sts.	1,545.26	12-in., pipe.....	.....	5,590 91
Fuller st.	Passageway and Morton st. .	225.00	12-in., pipe.....	Contract; much rock.	654 85
Gramptian way...	Westerly junction with Savin Hill ave. and summit.....	548.35	12-in., pipe.....	Contract; very much rock.....	2,810 40
Greenwood st.	Existing sewer and Elmo st..	.....	.....	Contract; considera- ble rock.....	292 57
Elmo st.	Greenwood st., westerly	459.68	12-in., pipe.....	Contract.....	2,172 49
Leedsville st.	Dorchester ave. and Adams st.	600.75	12-in., pipe.....	Built in 1896.....	213 26
Lyons st. ....	.....	.....	.....	.....
Franklin Field.	Mountain ave. and Norfolk st.	1,275.00	12-in., pipe.....	Some rock.....	2,581 76
Mascot st.	Mascot st. and private land..	.....	.....	.....
Jones ave.	Jones ave. and Lauriat ave..	461.00	12-in., pipe.....	Contract.....	1,062 94
Private land.....	Lauriat ave. and Ballou ave.,	240.00	12-in., pipe.....	Very much rock.....	
Mountain ave.	Mascot and Willowood sts.,	498.60	15-in., pipe..	.....
Dumas st.	Bertram and Chickatawbuts sts.	811.85	12-in., pipe.....	Some piling.....	5,107 33

Dorchester. — *Continued.**Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.*

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Newhall ave.....	Newhall st. and summit	786.85	12-in., pipe.....	.....	\$2,061 73
Newhall st.....	Pierce and Ashmont sts.....	539.55	12-in., pipe.....	.....	209 64
Newhall pl.....	Newhall ave. and lot line.....	199.30	12-in., pipe.....	.....	1,253 35
Nelson st.....	Selden and Norfolk sts.....	525.00	12-in., pipe.....	Contract; considerable rock.....	397 44
Oak ave	Plain and Adams sts.....	323.45	12-in., pipe.....	.....	1,083 53
Oak terrace.....	Lyons and Birch sts.....	501.98	12-in., pipe.....	Contract.....	5,119 06
Lyons st.....	Chapman ave. and Oak ter.....	157.10	12-in., pipe.....	Some rock.....	2,339 73
Percival st	Bowdoin and Fox sts.....	827.35	12-in., pipe.....	All rock.....	905 32
Pierce st.....	Intercepting sewer and sum- mit.....	664.81	15-in., pipe.....	.....
Plain st.....	Pierce and Chickatawbut sts. Intercepting sewer and Adams st.....	705.88	12-in., pipe.....	.....
Mill st.....	Adams and Samoset sts.....	670.24	12-in., pipe.....	.....
Rosemont road.....	Junction of Samoset st. and Rosemont-st. extension.....	115.00	3 ft. 4 in. X 5 ft., brick. .....	.....
Private land.....	Melbourne and Carlisle sts.....	705.87	3 ft. X 4 ft. 10 in., brick. .....	.....	10,350 84
Brent st.....	Lawrence ave. and Stanwood st.....	300.40	15-in., pipe.....	Much rock.....	7,241 14
Devon st. outlet in private land.....	Richfield and Columbia sts.....	11.60	12-in., pipe.....	.....
Devon st. outlet in private land.....	.....	1,205.22	15-in., pipe.....	Very much rock.....	10,393 81
.....	.....	341.30	12-in., pipe.....	.....

River st.....				15-in., pipe.....	Contract.....	5,618 34
Fremont st.....				12-in., pipe.....	Very much rock.....	
Norfolk st.....						
Robinson st.....				12-in., pipe.....	Contract.....	519 99
Sawyer ave.....				12-in., pipe.....	Contract; some rock...	1,437 88
{ Shelton st.....				12-in., pipe.....	Contract.....	
{ Private land.....				12-in., pipe.....	Contract; much rock.	3,050 86
Stanwood st.....				12-in., pipe.....	just begun, nothing	
					charged in 1897.	
Stanwood st.....				12-in., pipe.....	Contract; some rock...	139 86
				7-ft., brick.....		
Shamrock-st. outlet				4-ft., brick.....	Much piling.....	11,685 65
				Treble, 4-ft., brick.....		
Tolman st.....				12-in., pipe.....	Some piling.....	2,027 95
Washington st.....				12-in., pipe.....	Contract; much rock...	2,968 85
Washington st.....				12-in., pipe.....	Contract; much rock...	3,114 36
Wrentham st.....				12-in., pipe.....		
						1,251 00

Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.

Athelwold st.....				15-in., pipe, sewer.....	Contract; considerable	\$4,305 55
				12-in., pipe, sewer.....	rock.....	
				6-in., pipe, house drain.		
				18-in., pipe, C. B. drain.		
				15-in., pipe, C. B. drain.		
				12-in., pipe, C. B. drain.		
				10-in., pipe, C. B. drain.		
				4 catch-basins.....		
				3 drop-inlets.....		
				4 ft. X 3 ft. 9 in., concrete		
				culverts.....		

Dorchester. — Continued.

Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Blue Hill ave., Sect. 4, and part of Sect. 3.....		902.13 5.00 137.63	12-in., pipe, sewer..... 8-in., pipe, sewer..... 10-in., pipe, C. B. drain..... 7 catch-basins.....	Contract; some rock..	\$1,604 82
Blue Hill ave., Sects. 1 to 16...		..... 30.00 195.00 961.78 84.13 .....	..... 12-in., pipe, sewer..... 6-in., pipe, house drain..... 12-in., pipe, C. B. drain... 10-in., pipe, C. B. drain... 4 catch-basins..... 4 drop-inlets.....	..... Contract..... Some rock.....	1,959 63 1,089 28
Bloomfield st. . . .	Geneva ave. and Greenbrier st.	..... 32.00 708.00 323.50 1,001.45 401.30 30.00 84.50 89.00 71.80	12-in., pipe, sewer..... 6-in., pipe, house drain.. 30-in., pipe, C. B. drain.. 24-in., pipe, C. B. drain.. 18-in., pipe, C. B. drain.. 15-in., pipe, C. B. drain.. 12-in., pipe, C. B. drain.. 10-in., pipe, C. B. drain.. 10 catch-basins..... 1 drop-inlet..... 7 ft. X 5 ft. 8 in., concrete culvert.....	Contract	6,741 18
Bernard st.	Talbot ave. and Harvard st..				

Burt st.....	Aslmont and Washington sts.	{ 251.35 1,037.08 980.50 679.75 52.00 39.90 }	{ 15-in., pipe, sewer..... 12-in., pipe, sewer..... 6-in., pipe, house drain.. 12-in., pipe, C. B. drain.. 10-in., pipe, C. B. drain.. 4 catch-basins..... 2 drop-inlets..... 4 ft. X 3 ft. 5 in., stone culvert..... }	Contract; very much rock	8,634 30
Columbia road, Sect. 4.....	Edward Everett sq. and Dud- ley st.....	{ 951.92 84.00 288.00 }	{ 12-in., pipe, sewer..... 10-in., pipe, sewer..... 6-in., pipe, house drain.. 4 catch-basins..... 3 drop-inlets..... }	Contract	2,392 53
Chamberlain st...	.....	.....	.....	Built in 1896.....	23 27
Chamblet st.....	Magnolia and Hartford sts..	40.00	{ 10-in., pipe, sewer..... 4 catch-basins..... }	Contract; much rock.	1,126 05
Ellet st.	Dorchester ave. and Adams st.	46.00 330.00	{ 10-in., pipe, sewer..... 6-in., pipe, house drain.. 3 catch-basins..... }	Contract	567 25
Elizabeth st.....	Norfolk and Astoria sts.....	548.00 766.00	{ 15-in., pipe, sewer..... 12-in., pipe, sewer..... }	.....	.....
Outlet in Nor- folk st.....	Morton and Elizabeth sts....	260.00 351.00	{ 6-in., pipe, house drain.. 15-in., pipe, C. B. drain.. }	Contract; very much rock	6,468 94
and Morton st...	Culvert and Norfolk st.....	505.00 50.00	{ 12-in., pipe, C. B. drain.. 4 catch-basins..... 18-in., pipe, culvert..... }	.....	.....

Dorchester. — Continued.

Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Fenelon st. ....	.....	.....	.....	Built in 1896.	\$16 99
		1,612.48	12-in., pipe, sewer.....		
		2,132.00	6-in., pipe, house drain...		
		125.50	18-in., pipe, C. B. drain..		
		414.20	15-in., pipe, C. B. drain..		
Fairmount st.	Washington and Morton sts..	1,474.40	12-in., pipe, C. B. drain..	Contract; some rock...	5,955 74
		264.00	10-in., pipe, C. B. drain..		
		.....	17 catch-basins.....		
		.....	7 drop-inlets.....		
		52.00	24-in., pipe, culvert.....		
		40.00	18-in., pipe, culvert.....		
Gaylord st. ....	.....	.....	.....	Built in 1896.....	22 20
		53.90	12-in., pipe, C. B. drain..		
Geneva ave.	Park and Westville sts.	35.00	10-in., pipe, C. B. drain..	Day labor.	161 85
Geneva ave. and Park st. ....	.....	.....	1 catch-basin.....		
		.....	1 drop-inlet.....		
Greenbrier st. ....	.....	.....	.....	Contract; built in 1896,	39 12
		646.00	6-in., pipe, house drain...	Contract.	366 44
Lauriat ave.	Bloomfield and Park sts.....	10.00	12-in., pipe, C. B. drain...	Built in 1896.....	625 00
		

Leroy st.		<div>51.00</div> <div>12-in., pipe, sewer.....</div> <div>147.00</div> <div>10-in., pipe, sewer.....</div> <div>137.00</div> <div>6-in., pipe, house drain..</div> <div>349.00</div> <div>12-in., pipe, C. B. drain..</div> <div>44.00</div> <div>10-in., pipe, C. B. drain..</div> <div>.....</div> <div>2 catch-basins.....</div> <div>.....</div> <div>2 drop-inlets.....</div> <div>.....</div> <div>4 ft. 6-in., X 5-ft. concrete culvert.</div> <div>40.00</div>	Contract.....	1,299 00
Morse st.		<div>.....</div> <div>12-in., pipe, sewer.....</div> <div>64.95</div> <div>6-in., pipe, house drain..</div> <div>78.00</div> <div>.....</div> <div>3 catch-basins.....</div> <div>.....</div> <div>3 drop-inlets.....</div> <div>.....</div> <div>15-in., pipe, C. B. drain..</div> <div>42.73</div> <div>12-in., pipe, C. B. drain..</div> <div>562.96</div> <div>10-in., pipe, C. B. drain..</div> <div>95.95</div>	Built in 1896.....	10 23
Oakley st.....	Geneva ave. and Bowdoin st.	.....	Contract; some rock...	807 51

Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or special Acts referring thereto.

Rosseter st. and outlet.....	Bullard st. and Bowdoin ave.	<div>830.00</div> <div>12-in., pipe, sewer.....</div> <div>639.00</div> <div>6-in., pipe, house drain..</div> <div>375.00</div> <div>18-in., pipe, C. B. drain..</div> <div>59.00</div> <div>15-in., pipe, C. B. drain..</div> <div>100.00</div> <div>12-in., pipe, C. B. drain..</div> <div>1,608.10</div> <div>12-in., pipe, sewer.....</div> <div>1,556.85</div> <div>6-in., pipe, house drain..</div> <div>91.50</div> <div>12-in., pipe, C. B. drain..</div> <div>128.65</div> <div>10-in., pipe, C. B. drain..</div> <div>.....</div> <div>6 catch-basins.....</div> <div>.....</div> <div>3 drop-inlets.....</div> <div>.....</div>	Contract; some rock..	\$1,584 23
Tonawanda st.	Greenbrier st. and Geneva ave. ....	.....	Contract; some rock..	2,871 79

Dorchester. — Continued.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Wilder st.	Built in 1896	\$33 15
Wolcott st.	Built in 1896	62 26
Total	\$170,245 33
82 new catch-basins and 10 drop-inlets built, and catch-basin repairs.....		4,234 44
					<u>\$174,479 77</u>

Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Ballou ave.	Lauriat ave. and summit....	695.70	12-in., pipe.	
Bellevue st. extension	Barrington st. and Kane st....	367.40	12-in., pipe.	
Bowdoin sq.	Tonawanda st. and Stratford st.	424.12	12-in., pipe.	
Brunswick st....	Normandy st. and Columbia road	528.00	12-in., pipe.	

Dakota st.	Greenbrier st. and Bowdoin sq.	250.12	12-in., pipe.
Devon st.	Normandy st. and existing sewer	129.00	15-in., pipe.
Drayton ave.	Quincy st. and Bodwell st. ..	221.25	12-in., pipe.
Elmhurst st.	Southern ave. and Norfolk st.	435.15	12-in., pipe.
Elmo st.	Existing main sewer, westerly towards Erie st.	416.00	12-in., pipe.
Everett road, formerly Coffin st. .	Springdale st. and Savin Hill ave.	267.75	12-in., pipe.
Ferndale st.	Southern ave. and Norfolk st.	285.20	12-in., pipe.
Floyd st.	Blue Hill ave., easterly	199.53	12-in., pipe.
Gawain st.	Park st. and Athelwold st. ..	726.64	12-in., pipe.
Half Moon st.	Existing sewers and summit at angle	294.58	12-in., pipe.
Homes ave.	Geneva ave. and Bowdoin st.	318.95	12-in., pipe.
Homes ave.	Topliff st. and Geneva ave. ..	475.10	12-in., pipe.
Lindsey st.	Greenbrier st. and property line	515.92	12-in., pipe.
Mallet st.	Slawmut pk. and Adams st. .	659.77	12-in., pipe.
Normandy st.	Seaver st. and Columbia road	380.00	12-in., pipe.
Normandy st.	Washington st. and Seaver st.	779.45	12-in., pipe.
Normandy st.	Grove st. and Lawrence ave. .	94.76	12-in., pipe.
Perth st.	Quincy st. and Phipps ave. .	202.00	12-in., pipe.
Pinckney road ...	Normandy st. and Columbia road	448.08	12-in., pipe.
Phipps ave.	Existing sewer and Dunkeld st.	486.23	12-in., pipe.
Quincefield st.	Humphreys st. and Humphreys sq.	240.51	12-in., pipe.
Ridge road	Park st. and Bowdoin st.	431.35	12-in., pipe.
Samoset st.	Rosemont st., northerly	125.00	12-in., pipe.
Seaver st.	Columbia road and Blue Hill ave.	700.79	12-in., pipe.

Dorchester. — Continued.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Santuit st.	Rosemont st. and Welles ave.	200.00	12-in., pipe.	
Stratford st.	Greenbrier st. and property line.....	578.50	12-in., pipe.	
Stratton st.	Blue Hill ave., easterly.....	209.26	12-in., pipe.	
Tonawanda st.	Greenbrier st. and proposed st.	221.75	12-in., pipe.	
Washington st.	Blue Hill ave. and Columbia road	1,036.32	12-in., pipe.	
Wellesley pk.	Park st. and Melville ave....	1,194.07	12-in., pipe.	
York st.	Greenwood st. and Glenway st.	354.89	12-in., pipe.	
<i>Surface Drains built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.</i>				
Ashmont st.	Culvert and Adams st.	226.00	12-in., pipe, C. B. drain.	
Branch ave.	Existing basins and private land	73.00	10-in., pipe, C. B. drain.	
Private land	Branch ave. and Ditson st ...	385.55	12-in., pipe, C. B. drain.	
Kilton st.	Talbot ave. and Wheatland ave.....	399.00	12-in., pipe, C. B. drain.	
Leedsville st.	Dorchester ave. and Adams st.	22.00	10-in., pipe, C. B. drain.	
		594.64	18-in., pipe, C. B. drain, } 1 catch-basin.	

		<i>Surface Drains built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.</i>	
Private land.....	Junction of Samoset st. and Rosemont-st. extension and Melbourne st.....	40.50	4 ft. 6 in. X 4 ft. 3 in., brick conduit.
Private land.....	Lawrence ave. and Stanwood st.....	124.28	4 ft., circular brick.
Private land.....	Davenport st., Brook st. and Ashmont st.....	282.20	3 ft. 6 in., circular brick.
Ashmont st.....	Waldorf st. and Montague st.	204.43	30-in., pipe, C. B. drain.
Sydney st.....	Land of Campbell and Savin Hill ave.....	169.82	24-in., pipe, C. B. drain.
Savin Hill ave....	Sydney st. and Midland st...	218.32	18-in., pipe, C. B. drain.
Midland st	Savin Hill ave. and Bay st..	560.28	15-in., pipe, C. B. drain.
		652.85	12-in., pipe, C. B. drain.
		88.11	10-in., pipe, C. B. drain.
		225.00	12-in., pipe, C. B. drain.
		395.00	12-in., pipe, C. B. drain.
		<i>Surface Drains built between February 1, 1897, and February 1, 1898, by Private Parties.</i>	
Tenean creek or Smelt creek...	From a point nearly opposite Elm st. to a point on Park st., between Dorchester ave. and Geneva ave.....	130.00	14 ft. X 12 ft., brick conduit.
Wessex st.....	Shenandoah st. and Weyanoke st.....	129.80	30-in., pipe, C. B. drain.
Weyanoke st	Wessex st. and Bushnell st ..	562.75	20-in., pipe, C. B. drain.
Bushnell st.....	Weyanoke st. and Rowena st.	128.65	18-in., pipe, C. B. drain.
			3 catch-basins.
Dorchester ave..	Adams st. and Richmond st.	25.30	18-in., pipe.

Dorchester. — *Concluded.*

Culverts built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Private land.....	Sydney st., land of Eben Bacon.....	156.50	24-in., pipe.	

Roxbury.

Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Atherton-st. extension.....	Amory st. and Lamartine st., Charlesgate west, and Kenmore st.....	{ 64.98 243.97 }	12-in., pipe..... 10-in., pipe.....	.....	\$643 81
Beacon st.....	Tremont st. and Columbus ave.....	70.14	15-in., pipe.....	Part rebuilding.....	343 69
Burke st.....		270.21	18-in., pipe.....	Rebuilding. This cost includes both house and storm sewer....	1,291 41

Roxbury. — Continued.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Shawmut ave., Roxbury st., and Guild row.....	Vernon st. and Dudley st...	20.18	3 ft. 6 in. × 5 ft. 6 in., brick.....	Rebuilding.....	\$4,134 51
Wabeno st.....	Waumbek st. and Wyoming st.	234.49	12-in., pipe.....	Built by contract.....	1,060 73
Walnut ave.....	Pickering ave. and Rockland st.....	162.20	12-in., pipe.....	Built by contract.....	582 95
Walpole st.....	Tremont st. and Columbus ave.....	233.78	18-in., pipe.....	Built by contract.....	260 52
Washington st...	Nawn st. and Williams st...	225.17	12-in., pipe.....	.....	840 65
West Roxbury low level sewer.....	Roxbury crossing and end of existing sewer south of Amory st.....	{ 1,200.00 72.00 34.00 891.00 27.00 }	{ 2 ft. × 3 ft., brick 2 ft. 6-in., iron pipe 2 ft. 6 in., circular brick } 2 ft. × 3 ft. 6 in., brick.. } 2 ft. × 3 ft., brick }	Cost shown under Stony- brook conduit.	15,023 44
<i>Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.</i>					
Boylston st.....	Fens to Brookline ave.....	.....	.....	Built in 1896.....	\$85 75
Bryant st.....	Huntington ave. and Parker st.....	{ 227.00 48.00 }	{ 12-in., pipe sewer..... 10-in., C. B. drain..... 4 catch-basins..... }	Built by contract, gravel refill	898 60

Fullerton st.....	Brookline ave. and Fairhaven st.....	465.00 30.65 499.05 36.19 533.00 560.53 4.00 1,146.39 369.25 111.96 1,663.92 1,714.94	18-in., pipe, sewer..... 12-in., pipe, sewer..... 12-in., pipe, C. B. drain.. 10-in., pipe, C. B. drain.. 6-in., pipe, house drain.. 4 catch-basins..... 2 ft. 6 in. X 3 ft., brick sewer..... In reducer..... 18-in., pipe, sewer..... 12-in., pipe, sewer..... 10-in., pipe, C. B. drain.. 6-in., pipe, house drain.. 15 catch-basins..... 2 ft. 6 in. X 3 ft., brick sewer..... 18-in., pipe, sewer..... 3 ft., circular brick, C. B. drain..... 3 ft. 6 in., circular brick, C. B. drain..... 2 ft. 6 in. X 3 ft., brick sewer..... 18-in., pipe, sewer..... 3 ft., circular brick, C. B. drain..... 3 ft. 6 in., circular brick, C. B. drain..... 2 ft. 6 in. X 3 ft., brick sewer..... 18-in., pipe, sewer..... 2 ft. 6 in. X 3 ft., brick sewer.....	Built by contract..... Built by contract, piles. Piles; built by contract. Piles; built by contract. Piles; built by contract.	2,728 72 10,622 25 18,209 50 7,269 64 3,399 44
Parker, Norway and Turner sts.	.....	.....	.....	.....	.....
Peterborough st..	Anubon road and Audubon road.....	111.36 14.64 35.36 187.09 56.00 249.55	18-in., pipe, sewer..... 3 ft., circular brick, C. B. drain..... 3 ft. 6 in., circular brick, C. B. drain..... 2 ft. 6 in. X 3 ft., brick sewer..... 18-in., pipe, sewer..... 2 ft. 6 in. X 3 ft., brick sewer.....	Piles; built by contract. Piles; built by contract. Piles; built by contract.	18,209 50 7,269 64 3,399 44
Ruggles st.....	Parker st. and Back Bay Fens.....	.....	.....	.....	.....
Vancouver st.....	Ruggles st. and Huntington ave.....	.....	.....	.....	.....

Roxbury. — Continued.
Boulevards.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Columbus ave., Sects. 4, 5, 6.... Columbus ave., Sect. 7.....	Northampton st. and Frank- lin park..... Northampton st. and Frank- lin park.....	120.00	{ 10-in., pipe, C. B. drain.. 5 catch-basins.....	..... ..... Cost of Sect. 7 shown under Columbus ave., Old Heath and Ritchie sts.....	\$8,836 19
Columbus ave., Sect. 8.....	Northampton st. and Frank- lin park.....	{ 325.71 268.29 289.03 20.00 33.30 42.00	{ 3 ft. 6 in. X 4 ft. 10 in., brick sewer..... 2 ft. 4 in. X 3 ft. 6 in., brick sewer..... 12-in., pipe, sewer..... 10-in., pipe, C. B. drain.. 8-in., pipe, house drain.. 6-in., pipe, house drain.. 5 catch-basins.....	..... ..... ..... Built by contract; much rock.....	
79 new catch-basins and 3 drop-inlets built, and catch-basin repairs.....					\$142,766 26
					13,959 12
					\$156,725 38

Surface Drains built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Burke st.	Tremont st. and Columbus ave.	202.60	12-in. pipe, C. B. drain...	} Cost shown under special heading, Stony brook construction.
Stony brook	Stony brook gate-house and existing channel.	17.06	10-in. pipe, C. B. drain...	
		1,845.00	15 ft. 6 in. × 17 ft., brick,	
	Built in connection with Stony brook.	207.00	10-in., pipe, sewer.	
		48.00	4-ft., iron pipe, sewer.	
		24.00	5-ft., iron pipe, sewer.	
		21.00	5-ft., circular brick, sewer	
		17.00	In bell-mouth.	
Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.				
Arcola st.	Day st. and 335 feet westerly, South Huntington ave. and Cranford st.	334.55	12-in., pipe.	
Basswood st.		424.60	10-in., pipe.	
Bynner st.	Jamaicaway and Day st.	112.64	10-in., pipe.	
Carmel st.	Tremont st. and Delle ave. .	261.70	12-in., pipe.	
Cranford st.	Heath st. and Floyd st.	330.37	10-in., pipe.	
Delle ave.	Carmel st. and Burney st. ...	193.74	12-in., pipe.	
Dennison st.	Walnut ave. and Harrishof st.,	639.00	12-in., pipe.	

Roxbury. — Concluded.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
Floyd st.....	South Huntington ave. and Cranford st.....	294.87	10-in., pipe.	
Gayland st.....	Existing sewer and West Cottage st.....	101.85	10-in., pipe.	
Halcy st.....	Harrishof st. and Dennison st..	282.70	12-in., pipe.	
Harold st.....	Walnut ave. and Munroe st..	197.00	12-in., pipe.	
Harrishof st.....	Walnut ave. and Dennison st..	388.39	12-in., pipe.	
Iroquois st.....	Calumet st. and 952 feet west- erly	952.90	12-in., pipe.	
Nazing st.....	Blue Hill ave. and Maple st..	702.00	15-in., pipe.	
South Huntington ave.....	Heath st. and Bynner st.	1,859.46	10-in., pipe.	
<i>Surface Drains built between February 1, 1897, and February 1, 1898, by Private Parties.</i>				
Basswood st.....	South Huntington ave. and Cranford st.....	{ 431.95 41.22	12-in., pipe. 10-in., pipe. 2 catch-basins.	
Bynner st.	Jamaicaway and Day st.	{ 26.15 24.00	15-in., pipe. 10-in., pipe. 10 catch-basins.	
Cranford st.	Heath st. and Floyd st.	{ 64.70 57.27	12-in., pipe. 10-in., pipe. 3 catch-basins.	

City Proper.

Sewers built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

Dennison st. Haley st. Harrishof st. South Huntington ave.	LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
	Built in	Between				
		Walnut ave. and Harrishof st., 2 catch-basins. 10-in., pipe. 23.00 Harrishof st. and Dennison st. 1 catch-basin. 10-in., pipe. 34.00 Walnut ave. and Dennison st.. 2 catch-basins. 15-in., pipe. 371.29 12-in., pipe. 378.90 Heath st. and Bynner st. 10-in., pipe. 147.13 7 catch-basins.	{ 23.00 34.00 371.29 378.90 147.13	10-in., pipe. 2 catch-basins. 10-in., pipe. 1 catch-basin. 10-in., pipe. 2 catch-basins. 15-in., pipe. 12-in., pipe. 10-in., pipe. 7 catch-basins.		
Atlantic ave.		South Market st. and Com- mercial wharf.	{ 44.00 463.15 165.00	15-in., pipe. 12-in., pipe. 12-in., pipe.	Built by contract. Old walls encountered }	\$3,847 39 440 48
Barton st. Bothnia st. and Boylston st.		Barton pl. and Milton st.				
Court st. and Bul- finch st.		Cambria st. and Massachu- setts ave. End of old sewer and Bul- finch pl.	298.25	12-in., pipe.	Built by contract. Built in 1896.	1,110 62 815 15

City Proper. — Continued.

LOCALITY.		Length in Feet.	Dimensions and Material.	Remarks.	Expenditure during the fiscal year 1897-98.
Built in	Between				
Canal-street relief sewer:					
In Central st....	Atlantic ave. and India st....	413.50	5 ft. X 5 ft. 3½ in., brick. }		
In India st.....	Central st. and State st.....	237.09	2 ft. 4 in. X 3 ft. 6 in., brick }		
In Commercial st.....		{ 74.34	3 ft. 6 in. X 3 ft. 8½ in., brick }		
	State st. and Clinton st.....	{ 423.50	2 ft. 4 in. X 3 ft. 6 in., brick }		
In Clinton st....	Commercial st. and Blackstone st.....	118.00	5 ft. 6 in. X 5 ft. 9¾ in., brick }	Rebuilding.....	\$20,988 25
Charles and Allen sts.....	Poplar st. and Brighton st....	{ 536.37	2 ft. 6 in. X 3 ft., brick....	Old sewers and old foundations encountered.....	15,462 72
Malden st.	Existing sewer and Harrison ave.....	{ 7.50	18-in., pipe.....	Built by contract.....	4,044 52
South Market st..	Commercial st. and Merchant's row.....	{ 411.26	12-in., pipe.....	Part on piles.....	
South Russell st..	Cambridge st. and Myrtle st. Church st. and B. & A. R.R. bridge.....	{ 250.00	15-in., pipe.....		746 51
Tremont st.....		{ 250.00	12-in., pipe.....		2,863 65
Unity st. and Webster ave.....				Built in 1896.....	45 61
Warren ave.....	Charter st. and Revere pl....	121.00	12-in., pipe.....	Built by contract.....	736 97
	Dartmouth st. and Clarendon st.....	{ 97.94	12-in., pipe.....	Rebuilding.....	1,130 30
	Oak st. and Warrenton st....	{ 3.00	12-in., circular, brick....		
Wigget st.....	North Margin st. and Salem st.	526.69	15-in., pipe.....	Rebuilding.....	1,977 67
		285.27	12-in., pipe.....		1,119 59
		247.61	18-in., pipe.....	Built by contract; rebuilding.....	1,173 13

South Union Station.

Cove st.....		21.00 312.92 50.00 50.00 529.49 12.00	{ 5 ft. X 5 ft. 3½-in., brick.. 4 ft. 3 in. X 4 ft. 6 in., brick, 3 ft. X 4 ft. 6 in., brick... 2 ft. 8 in. X 4 ft., brick.. 3 ft. X 3 ft. 2¼ in., brick.. In tide-gate, M. H. and re- ducer.....	\$27,580 70
Summer st. and Beach st....		19.00 33.00 22.00 14.34	{ 18-in., pipe..... 12-in., pipe..... 6-in., iron pipe..... In regulator chamber and connection ..	
Mt. Washington ave., railroad yard and Kneel- and st.....		669.19 494.00 78.00 48.00 685.00 15.00	{ 2 ft. 8 in. X 4 ft. 6 in., brick, 6 ft. 8 in. X 6 ft. 8 in., brick.. 11 ft. X 4 ft. 4 in., brick.. In reducers..... 5 ft. X 5 ft. 3½ in., brick.. In tide-gate chamber.....	34,460 43
Summer st.....			{ Intercepting sewer.. Piles..... Piles.....	21,847 78
Holidays and miscellaneous on South Union Station.....				4,095 68
<i>Sewers built between February 1, 1897, and February 1, 1898, by the City, under Chapter 323 of the Acts of 1891, as amended by Chapter 418 of the Acts of 1892, or Special Acts referring thereto.</i>				
Clinton st.....	Commercial st. and Fulton st.		Built in 1896.....	19 27
Total				\$144,506 42
32 new catch-basins built, and catch-basin repairs.....				9,317 44
				\$153,823 86

City Proper.—*Concluded.*
Surface Drains built between February 1, 1897, and February 1, 1898, by the City, either by Contract or Day Labor.

LOCALITY.		Length in feet.	Dimensions and Material.	Remarks.
Built in	Between			
St. Botolph st. and Irvington st.... Summer st.....	Harcourt st. and Boston and Providence R.R.	535.54 56.00	18-in., pipe. 3 ft. X 3 ft., wood extension of outlet.....	Built by contract. Built by contract.
<i>Sewers built between February 1, 1897, and February 1, 1898, by Private Parties.</i>				
Adams sq..... Beacon st. and School st.....	..... At Tremont st.....	78.50 20.00 32.00 30.00	2-ft., circular, brick. 18-in., steel and cement. 18-in., circular, brick. 15-in., pipe.	
Cornhill	Adams sq. and Court st.....	180.00	12-in., pipe.	
Hanover st.....	Near Court st.....	72.00	10-in., pipe.	
Hanover st. and Tremont row...	.....	55.00	12-in., pipe.	
Sears st.....	Central Wharf and India st..	419.00	18-in., pipe.	
Tremont st.....	Hollis st. and Common st....	221.55	12-in., pipe.	
Tremont st.....	Pemberton sq. and School st.	72.00	10-in., pipe.	
Tremont row.....	Northerly from Pemberton sq.	113.50	12-in., pipe.	
Washington st....	Elm st. and Hanover st.....	43.00	2-ft., circular, brick.	
Washington st....	Elm st. and Brattle st.	57.00 273.00 150.70	2-ft., circular, brick. 18-in., pipe. 12-in., pipe.	

Work done for and paid by Paving Division, including new Catch-basins, Manholes and Repairs.

Street Department, Paving Division	\$304 33
Congress and L streets	11 32
Quincy street, Ward 4, laying out and construction,	16 31
State street, paving	125 70
Washington street, from Eliot to Dover, paving	138 97
Street Improvements, Ward 1	148 16
“ “ “ 2	211 36
“ “ “ 3	19 48
“ “ “ 4	21 38
“ “ “ 13	445 34
“ “ “ 14	247 87
“ “ “ 15	147 13
“ “ “ 16	382 66
“ “ “ 18	268 55
“ “ “ 19	829 54
“ “ “ 22	591 28
“ “ “ 25	82 76
	<hr/>
	<u>\$3,992 14</u>

RECAPITULATION.**NEW SEWERS.**

South Boston	\$61,577 49
East Boston	31,850 87
Charlestown	24,175 81
Brighton	68,452 24
West Roxbury	64,384 20
Dorchester	170,245 33
Roxbury	142,766 26
City Proper	144,506 42
	<hr/>
	\$707,958 62

CATCH-BASINS.

South Boston	\$3,994 52
East Boston	2,447 77
Charlestown	637 02
Brighton	9,964 15
West Roxbury	2,105 15
Dorchester	4,234 44
Roxbury	13,959 12
City Proper	9,317 44
	<hr/>
	46,659 61
Improved Sewerage Maintenance	116,298 61
Pumping Station, Forest-avenue section	7,585 01
	<hr/>
<i>Carried forward,</i>	\$878,501 85

<i>Brought forward,</i>		\$878,501 85
Stony Brook Maintenance		13,798 55
Stony Brook Construction		260,741 16
Miscellaneous		318,336 01
		<hr/>
		\$1,471,377 57
Less decrease in stock	\$2,986 94	
Less water charged to sewer construction	4,033 40	
	<hr/>	7,020 34
		<hr/>
		<u>\$1,464,357 23</u>

**Summary of Sewer Construction for the Twelve Months ending
January 31, 1898.**

DISTRICT.	Built by the City by Contract or Day Labor.	Built by Private Parties.	Total length built during the 12 months ending Jan. 31, 1898.
	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>
City	8,557.95	1,823.25	10,381.20
East Boston	2,380.24	2,639.54	5,019.78
Charlestown	818.35	.....	818.35
South Boston	4,855.27	909.63	5,764.90
Roxbury	20,414.43	8,709.38	29,123.81
West Roxbury	14,012.18	2,867.43	16,869.61
Dorchester	65,558.95	14,918.44	80,477.39
Brighton	17,727.56	7,101.47	24,829.03
 Total	 134,324.93	 38,969.14	 173,294.07

412 new catch-basins built.

941,467 linear feet sewers flushed.

806 cubic yards material removed from sewers.

6,655 catch-basins cleaned.

There are now 474.96 miles of sewers in charge of the Sewer Division.

The amount expended by this division during the twelve months ending January 31, 1898, including the amount spent under special appropriations was \$1,464,357.23.

**Schedule of Sewers built to date in the City of Boston,
February 1, 1898.**

DISTRICTS.	Total length built during the 12 months ending Jan. 31, 1898.	Length rebuilt during the 12 months ending Jan. 31, 1898.	Additional length for 12 months ending Jan. 31, 1898.	
	<i>Feet.</i>	<i>Feet.</i>	<i>Feet.</i>	<i>Miles.</i>
City	9,712.01	5,226.00	4,486.01	0.85
East Boston.....	5,019.78	—	5,019.78	0.95
Charlestown.....	818.35	346.00	472.35	0.09
South Boston.....	5,764.90	1,395.80	4,369.10	0.83
Roxbury	29,123.81	4,116.00	25,007.81	4.74
West Roxbury.....	16,879.61	—	16,879.61	3.20
Dorchester	80,477.39	—	80,477.39	15.24
Brighton	24,829.03	253.95	24,575.08	4.65
Totals.....	172,624.88	11,337.75	161,287.13	30.55
Length built previous to January 31, 1897.....				420.28
Total.				450.83
Length of intercepting sewer.....				24.13
Total				474.96

Rainfall. — Albany-street Yard.*Rainfall from February 1, 1897, to January 31, 1898.*

DATE.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	January.
1.....												
2.....		.05						.80		2.05		
3.....	.22		1.11									
4.....				.34								
5.....					.16		.65			.10	.37	
6.....		.26	.25									
7.....	.93											
8.....			.74								.12	
9.....	.40									.45		
10.....			1.92	.40								
11.....					2.35		.53	.06				
12.....	.10								.33	2.11	.30	
13.....	.15					.85		.31				
14.....		.25		.30	.30							
15.....			.30									
16.....								.25				
17.....							.42			.60		
18.....							.50					
19.....												
20.....					.42	.26		.75				
21.....		.80										1.40
22.....				.25		1.31	.90					
23.....	.71									.31		.61
24.....		1.10				.50	1.58	.97				
25.....				.50								
26.....								.07				.78
27.....										.33		
28.....			.12									
29.....						1.60				.11		
30.....					.88							
31.....				.41							1.46	
Totals.....	2.19	2.78	3.73	3.31	4.11	4.52	4.58	3.71	.33	6.16	2.22	2.79

NOTE.—Total rainfall for twelve months ending January 31, 1898, 39.43 inches.

Street Department — Sewer Division — Pumping-Station, Dorchester.

Report of Pumping done during the Year 1897.

STREET DEPARTMENT — SEWER DIVISION.

297

	ENGINE No. 1.		ENGINE No. 2.		ENGINE No. 3.		ENGINE No. 4.		Total gallons pumped.	Daily average amount pumped.	Daily average amount of coal used.	Per cent. of ashes and clinkers.	Gallons pumped per pound of coal used.	Average lift.	Duty in lb.-lbs. per 100 pounds coal used.	Rainfall.
	Pumping time.	Gallons pumped.	Pumping time.	Gallons pumped.	Pumping time.	Gallons pumped.	Pumping time.	Gallons pumped.								
1897.	<i>H. M.</i>		<i>H. M.</i>		<i>H. M.</i>		<i>H. M.</i>									
February ..	16 00	19,212,138	447 20	509,073,502	654 40	948,051,416	033 10	901,090,612	2,447,428,442	87,408,158	32,478	10	2,680	33.4	80,429,809	0.62
March	170 05	215,250,799	323 25	465,371,536	683 50	1,078,083,422	673 45	991,149,061	2,749,865,818	88,705,350	35,404	10	2,505	36.2	75,362,780	1.24
April	561 45	709,187,255	636 55	791,174,243	145 30	179,318,469	713 02	1,016,100,753	2,695,780,720	89,183,226	42,123	10	2,134	34.5	63,799,929	3.00
May	220 10	203,801,372	50 25	79,574,667	774 00	1,073,532,025	713 25	1,043,089,720	2,490,057,784	80,356,702	26,664	10	2,937	35.3	89,697,071	4.04
June	397 15	507,784,480	.....	.....	711 00	1,063,908,582	733 00	944,788,967	2,456,572,029	81,885,906	27,686	7	2,957	34.7	87,120,279	4.11
July	419 30	554,756,350	30 30	39,170,446	736 00	1,042,022,274	473 43	652,684,780	2,288,633,859	73,834,302	28,080	7	2,629	34.9	81,601,078	4.52
August	179 20	235,777,537	117 00	159,963,109	738 00	1,046,702,816	725 10	1,002,855,825	2,445,299,287	79,324,880	26,096	10	2,103	35.1	89,728,678	1.78
September,	81 50	111,486,755	49 15	89,384,838	653 35	982,805,495	632 37	915,895,487	2,099,572,005	70,019,086	23,505	7	2,962	35.7	80,531,358	2.56
October.....	17 05	21,577,016	47 23	64,171,633	706 40	1,059,207,673	667 48	862,734,428	2,007,630,750	61,538,411	20,467	8	2,131	35.7	91,817,397	3.71
November,	196 31	247,877,239	206 35	279,106,743	706 30	1,028,014,614	634 35	878,914,667	2,433,913,263	81,130,442	28,480	11	2,848	35.3	89,843,331	5.16
December,	608 20	840,411,393	518 13	731,515,701	122 00	183,230,333	738 46	1,050,979,877	2,806,137,304	90,520,558	30,061	7	2,378	35.4	71,250,555	3.86
1898.	112 20	122,833,427	270 04	368,739,036	730 20	1,027,325,659	734 50	1,007,845,618	2,526,743,830	81,507,768	29,140	10	2,796	35.1	85,375,629	1.40
Totals	2,989 20	3,879,965,580	2,706 04	3,647,245,514	7,362 42	10,632,354,778	8,163 51	11,208,129,825	29,447,695,637	965,414,789	350,244	107	33,050	421.3	987,566,894	36.00
Averages..	.....	.....	.....	.....	.....	.....	.....	.....	.....	80,451,122	28,111 8.11	.....	.....	35.1	82,288,810	.....

Pumping-Station.

Record of sludge received and removed from sewer and tank for twelve (12) months, ending January 31, 1898.

MONTH.	Received.	Removed.	Screenings received from Filth Hoist and towed down the Harbor.
February	387 yards.	170 yards.	72 yards.
March	308 "	255 "	144 "
April	335 "	425 "	144 "
May	580 "	680 "	144 "
June	565 "	425 "	
July	850 "	765 "	72 "
August	795 "	765 "	216 "
September	565 "	425 "	216 "
October	660 "	765 "	
November	755 "	680 "	
December	840 "	510 "	
January 31, 1898	624 "	425 "	
Total	7,564 "	6,290 "	1,008 "

PROPERTY IN CHARGE OF THE SEWER DIVISION.

Sewer yard, with buildings, at 678 Albany street, South End.

Sewer yard, with building, on North Grove street, West End.

Sewer yard, on Gibson street, Dorchester, with buildings. This is Gibson School-fund land. The buildings were erected by the Sewer Department.

Gate-house on Stony brook, Pyncheon street, Roxbury, built in 1889.

Sewer yard, with buildings, on Rutherford avenue, Charlestown.

Sewer yard, with buildings, corner Paris and Marion streets, East Boston.

Sewer yard, with buildings, on Massachusetts avenue, near Albany street, South End.

Sewer yard, with buildings, on Western avenue, Brighton.

Sewer yard, with buildings, on Revere street, West End.

Sewer yard, with buildings, H and Ninth streets, South Boston.

Sewer yard, with buildings, Childs and South streets, West Roxbury.

Land and buildings at pumping-station, Old Harbor Point, with roadway (Mt. Vernon street).

Land, buildings and reservoirs at Moon Island and Squantum.

**Summary of Sewer Construction for Five Years previous to
February 1, 1898.**

	1893.	1894.	1895.	1896.	1897.
	Feet.	Feet.	Feet.	Feet.	Feet.
Built by City by contract or day labor.....	66,400.85	90,802.77	139,200.09	116,008.25	134,324.93
Built by private parties.....	22,837.94	24,877.05	36,287.35	37,825.92	38,969.14
Total number of feet built.....	89,237.09	115,679.82	175,487.44	153,834.17	173,294.70

DETAILS OF COST AND CONSTRUCTION

are given of the following sewers which have been constructed during the year at a cost exceeding two thousand (2,000) dollars each :

B Street.

Labor \$2,391 86

B and Seventh-Street Outlet.

Labor	\$6,692 19
Brick	1,606 75
Derrick hire	1,018 60
Engine and pump hire	1,106 00
Supporting track	824 55
Lumber	728 83
Cement	773 85
Sand	526 52
Gravel	623 05
Filling	264 30
Teaming	674 00
Screenings	558 75
Dredging	525 00
Coal	289 77
Pipe	32 76
Blacksmithing	90 21
Pile driving	1,128 00
Carpentry	222 86
Water	88 80
Miscellaneous	337 09

Carried forward,

\$18,111 88

<i>Brought forward,</i>	\$18,111 88
Paving	61 96
Watchman	271 50
Two five-foot tide gates	243 74
Stone curbing	50 00
	<hr/>
	\$18,739 08

Dorchester Avenue and D Street, South Boston.

Labor	\$12,276 49
Brick	3,137 88
Teaming	1,916 75
Engine hire	1,458 00
Gravel	1,051 93
Screenings	1,145 16
Sand	970 41
Cement	969 85
Lumber	611 23
Paving	684 63
Carpentry	526 67
Trench machine	556 67
Watchman	327 75
Blacksmithing	212 00
Water	114 33
Pipe	306 18
Repairing engine	60 10
Rubber goods	38 52
Canvas	84 20
Street-Cleaning Division	37 50
Iron castings	31 80
Coal	190 20
Miscellaneous	60 94
	<hr/>
	\$26,769 19

Dorr Street.

Labor	\$2,893 74
Brick	277 61
Trench machine	280 00
Gravel	223 50
Engine hire	196 00
Carpentry	191 50
Sand	184 06
Teaming	144 00
Cement	97 00
Screenings	74 50
Pipe	56 96
Coal	34 40

<i>Carried forward,</i>	\$4,653 27
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STREET DEPARTMENT — SEWER DIVISION. 301

<i>Brought forward,</i>	\$4,653 27
Blacksmithing	31 05
Lumber	29 49
Iron castings	6 40
Water	3 14
	<hr/>
	\$4,723 35

H Street, between Eighth Street and Tidewater.

Labor	\$444 70
Pipe	77 66
Advertising and printing	74 57
Tide gates	61 52
Castings	29 45

Michele Russo, Contractor.

300 lin. ft., earth excavation, at \$1.75	\$525 00
75 cu. yds. brick masonry (American cement mortar), at \$7	525 00
20 cu. yds. brick masonry, Portland cement mortar, at \$9	180 00
110 cu. yds. concrete, at \$4	440 00
12 M. ft. B. M. spruce lumber (plat- form), at \$28	336 00
7 M. ft. B. M. spruce lumber (sheet- ing), at \$13	91 00
205 lin. ft. 8-in. pipe, underdrain, at 1c.	2 05
140 cu. yds. rock, at \$5	700 00

\$2,799 05

Less amount retained 419 86

2,379 19

\$3,067 09

Ashley Avenue, between Bennington and Breed Streets.

Labor	\$208 70
Cement	588 50
Brick	696 05
Pipe	40 62
Printing and advertising	74 11
Iron castings	37 63

J. P. O'Connell, Contractor.

728.16 lin. ft. earth excavation, for brick sewer, at \$2.50	\$1,820 40
2.60 cu. yds. earth excavation below grade, at 10 cents	26

Carried forward, \$1,820 66 \$1,645 61

<i>Brought forward,</i>	\$1,820 66	\$1,645 61
148.09 cu. yds. brick masonry (American cement mortar), at \$4.75 .	703 43	
151.82 cu. yds. concrete in place, at \$4	607 28	
8.98 M. ft. (B.M.) spruce in place, at \$25	224 50	
0.655 M. ft. sheeting left in place, at 10 cents	07	
728.00 lin. ft. 8-in. pipe, laid as underdrain, at 15 cents	109 20	
59.00 pipe connections in brick sewer, at 10 cents	5 90	
2.60 cu. yds. gravel refill, at 10 cents	26	
	<hr/>	
	\$3,471 30	
Less 200 lin. ft. 8-in. pipe, furnished by city, at \$0.144 . . .	28 80	
	<hr/>	
	\$3,442 50	
Less amount retained	172 13	
	<hr/>	
		3,270 37
		<hr/>
		<u>\$4,915 98</u>

Connection Metropolitan Sewer, Border and Decatur Streets.

Labor	\$1,827 77
Regulator	347 22
Teaming	308 00
Brick	233 00
Cement	189 20
Lumber	137 01
Coal	137 08
Engine hire	151 00
Engineer	162 50
Gravel	106 43
Carpentry	120 44
Miscellaneous	196 39
Pipe	56 69
Iron castings	24 64
Sand	24 53
Oil	14 25
	<hr/>
	<u>\$4,036 15</u>

Connection Metropolitan Sewer, Border and Eutaw Streets.

Labor	\$1,818 57
Regulator	371 71
Teaming	231 00
Brick	189 10
Cement	131 73
Lumber	78 47
Paving	51 89
Sand	25 12
Coal	30 84
Iron work	11 20
Carpentry	39 38
Gravel	75 60
Drain pipe	28 40
Iron pipe	19 70
Engine hire	68 00
Rubber goods	22 98
Miscellaneous	5 26
Blacksmithing	9 02
	<hr/>
	\$3,207 97
	<hr/>

Connection Metropolitan Sewer, Border and Lexington Streets.

Labor	\$2,170 00
Lumber	144 35
Cement	126 22
Sand and gravel	24 15
Brick	183 50
Pipe	68 89
Regulator	382 71
Teaming	269 25
Coal	25 38
Engine hire	64 00
Carpentry	31 20
Paving	46 62
Manhole steps	10 15
Water Department	18 40
Miscellaneous	55 96
	<hr/>
	\$3,620 78
	<hr/>

Connection Metropolitan Sewer, Maverick and Cottage Streets.

Labor	\$1,697 67
Regulator	403 75
Engine hire	262 00
Teaming	235 50
	<hr/>

*Carried forward,***\$2,598 92**

<i>Brought forward,</i>	\$2,598 92
Brick	193 71
Lumber	154 13
Cement	87 60
Coal	42 57
Drain pipe	16 57
Water pipe	16 52
Sand and gravel	43 02
Iron work	13 30
Miscellaneous	13 42
	<hr/>
	<u>\$3,179 76</u>

Connection Metropolitan Sewer, Maverick and Jeffries Streets.

Labor	\$1,632 14
Regulator	408 75
Brick	207 17
Cement	136 13
Teaming	257 25
Engine hire	209 00
Lumber	78 85
Drain pipe	38 87
Coal	40 29
Sand and gravel	29 12
Iron work	7 70
Miscellaneous	75 88
Iron pipe	21 40
	<hr/>
	<u>\$3,142 55</u>

Connection Metropolitan Sewer, Maverick and Lamson Streets.

Labor	\$1,964 97
Engine hire	141 50
Teaming	154 50
Cement	91 40
Lumber	96 27
Brick	172 75
Pipe	43 06
Miscellaneous	43 63
	<hr/>
	<u>\$2,708 08</u>

Connection with Metropolitan Sewer, Sumner and New Streets.

Labor	\$1,739 54
Regulator	402 75
Team	251 50
	<hr/>
<i>Carried forward,</i>	\$2,393 79

<i>Brought forward,</i>	\$2,393 79
Brick	205 60
Lumber	126 53
Engine hire	95 00
Engineer	32 50
Cement	127 32
Gravel	26 42
Paving	29 13
Castings	16 10
Pipe	20 35
Sand	13 83
Miscellaneous	28 54
	<hr/>
	\$3,115 11

**Connection Metropolitan Sewer, Chelsea and Vine Streets,
Charlestown.**

Labor	\$1,250 78
Cement	161 70
Brick	428 96
Pipe	32 04
Regulator	424 44
Sand, gravel and screenings	115 85
Teaming	206 00
Curbstone	50 00
Carpentry	33 64
Iron work	16 80
Lumber	24 21
Miscellaneous	60 32
Coal	13 19
	<hr/>
	\$2,817 93

Connection Metropolitan Sewer, Medford and Chelsea Streets.

Labor	\$2,942 43
Brick	279 58
Engine and derrick hire	275 00
Teaming	443 00
Cement	126 50
Regulator	371 38
Lumber	105 84
Blacksmithing	58 02
Pipe	63 24
Iron work	27 39
Coal	42 50
Sand	17 10
Miscellaneous	41 39
	<hr/>
	\$4,793 37

**Connection with Metropolitan Sewer, Rutherford Avenue, near
Miller Street.**

Labor	\$6,096 62
Engine hire	1,113 78
Teaming	708 50
Regulator	571 62
Brick	752 90
Cement	457 10
Coal	334 10
Pipe	144 65
Paving	103 62
Gravel	97 00
Sand	48 07
Rubber goods	42 70
Blacksmithing	42 50
Iron work	16 80
Miscellaneous	51 08
Lumber	470 54
	<hr/>
	\$11,051 58
	<hr/>

**Rutherford Avenue, between Outlet and Chapman Street,
Charlestown.**

Labor	\$3,623 65
Teaming	407 00
Coal	101 32
Lumber	93 85
Engine hire	180 00
Gravel	42 50
Sand	34 50
Pipe	27 50
Cement	66 00
Miscellaneous	21 61
	<hr/>
	\$4,597 93
	<hr/>

**Berwick Road, between Commonwealth Avenue and Chiswick
Road.**

Labor	\$87 27
Iron castings	24 10
<i>Thomas J. Young & Co., Contractors.</i>	
396.33 cu. yds. rock excavation, at \$4	\$1,585 32
424.43 lin. ft. 12-in., pipe, at \$1.85	785 20
	<hr/>
	2,370 52
	<hr/>
	\$2,481 89
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Brooks Street, between Faneuil and Bigelow Streets.

Labor	\$1,558 30
Pipe	405 83
Brick	110 00
Teaming	99 00
Iron work	45 10
Cement	35 25
Powder	15 65
Sand	10 80
Blacksmithing	18 27
Miscellaneous	14 00
Water	84 91
	<hr/>
	\$2,397 11

Cambridge Street, No. 2, Seattle to North Harvard Street.

Labor	\$2,273 03
Brick	149 62
Teaming	101 50
Engine and pump hire	66 00
Hose	45 48
Coal	14 94
Supplies	2 28
	<hr/>
	\$2,652 85

Cambridge Street, No. 1, Seattle Street to Charles River.

Labor	\$2,224 51
Lumber	298 72
Teaming	147 50
Brick	199 00
Cement	99 00
Carpentry	84 82
Plumbing	78 30
Pipe	75 90
Engine hire	82 00
Trench machine	20 00
Blacksmithing	9 75
Miscellaneous	7 82
Coal	14 94
	<hr/>
	\$3,342 26

Dunboy Street.

Labor	\$2,640 02
Trench machine	144 00
Pipe	638 29

Carried forward, **\$3,422 31**

<i>Brought forward,</i>	\$3,422 31
Teaming	180 00
Engine hire	72 00
Brick	140 00
Sand	13 98
Iron work	46 30
Cement	36 70
Water pipe	130 61
Miscellaneous	42 62
Coal	36 19
	<hr/>
	\$4,120 71

Newton Street and Private Land.

Labor	\$2,139 78
Pipe	374 43
Trench machine	208 00
Brick	153 00
Cement	70 20
Teaming	172 00
Iron work	90 10
Engine hire	92 59
Blacksmithing	50 10
Coal	76 80
Sand	18 00
Water	190 59
Miscellaneous	10 10
	<hr/>
	\$3,645 69

Rockland Street, Mt. Vernon Avenue to Jackson Street.

Labor	\$234 29
Pipe	78 48
Cement	9 05
Iron work	8 98
Coal	7 42

T. J. Young & Co., Contractors.

235 lin. ft. 12 in., pipe, at \$1.05	\$246 75
1 manhole, at \$40	40 00
279 cu. yds. rock excavated, at \$5.00	1,395 00
	<hr/>
	1,681 75
	<hr/>
	\$2,019 97

Sidlaw Road.

Labor	\$3,385 18
Pipe	147 90
Teaming	142 50

Carried forward, \$3,675 58

<i>Brought forward,</i>	\$3,675 58
Powder and fuse	108 56
Brick	54 20
Cement	14 90
Castings	17 80
Sand	6 36
Water	39 77
Oil	1 80
Blacksmithing	66 88
	<hr/>
	<u>\$3,985 85</u>

Strathmore Road, between Sutherland Road and Commonwealth Avenue.

Labor	\$1,513 09
Pipe	305 77
Teaming	105 50
Brick	87 00
Castings	55 19
Cement	34 25
Water	96 25
Sand	11 13
Blacksmithing	12 79
Miscellaneous	1 20
	<hr/>
	<u>\$2,222 17</u>

Salt Creek Outlet.

Labor	\$1,959 06
Pile driving	1,287 02
Cement	570 40
Expanded metal	296 80
Bolts, etc.	213 00
Paving	498 00
Sand	178 08
Teaming	127 00
Brick	70 00
Gravel	19 08
Blacksmithing	6 02
Iron work	2 80
Coal and oil	3 09
	<hr/>
	<u>\$5,230 35</u>

Union Street, between Shepard and Winship Streets.

Labor	\$2,112 54
Pipe	111 27
Powder and fuse	119 20
	<hr/>
<i>Carried forward,</i>	\$2,343 01

<i>Brought forward,</i>	\$2,343 01
Brick	40 00
Cement	12 50
Blasting logs	20 00
Iron work	12 80
Water	29 75
Teaming	42 50
Blacksmithing	44 73
Miscellaneous	9 68
	<hr/>
	<u>\$2,554 97</u>

Washington Street, Nantasket to Commonwealth Avenue.

Labor	\$3,267 96
Pipe	345 01
Trench machine	191 33
Teaming	227 50
Lumber	93 41
Engine hire	70 00
Coal	70 74
Iron castings	35 00
Blacksmithing	24 86
Canvas	47 50
Rubber goods	11 25
Cement	10 00
Oil	9 63
	<hr/>
	<u>\$4,404 19</u>

Western Avenue, Everett Street to North Harvard Street.

Labor	\$1,681 96
Pipe	1,618 69
Brick	117 25
Water	149 94
Iron work	59 60
Cement	52 50
Blacksmithing	22 81
Teaming	43 50
Sand	11 13
Miscellaneous	9 50
	<hr/>
	<u>\$3,766 88</u>

Commonwealth Avenue Outlet at Lake Street.

Printing and advertising	\$56 71
Labor and inspection	1,461 62
Teaming	17 50
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Carried forward, \$1,535 83

<i>Brought forward,</i>	\$1,535 83
Lumber	16 25
Drain pipe	1,146 47
Iron castings	101 70
Cement	1,620 85
Iron water-pipe	172 28
Bricks	2,452 00
Miscellaneous	14 92

Edward McHale & Co., Contractors.

1,760.79 lin. ft. earth excavation for brick sewer, at 40 cents	\$704 32
24 cu. yds. earth excavation, below grade, at 80 cents	19 20
493.93 cu. yds. rock excavation below grade, at \$2	987 86
533.73 cu. yds. concrete in place, at \$4	2,134 92
309.82 cu. yds. brick masonry (Amer- ican cement mortar), at \$4.20	1,301 24
116.42 cu. yds. brick masonry (Port- land cement mortar), at \$5	582 10
1,864 lin. ft. 6-in., underdrain, at 15 cents	279 60
289.39 lin. ft. 18-in., house sewer, at 50 cents	144 70
1,171.30 lin. ft. 12-in., house sewer, at 50 cents	585 65
169 lin. ft. 15-in., surface drain, at 35 cents	59 15
1,117.69 lin. ft. 12-in., surface drain, at 35 cents	391 19
48.95 M. ft. B. M. spruce sheeting left in place, at \$30	1,468 50
19.148 M. ft. B. M. spruce platform, and cradling left in place, at \$30	574 44
63.47 cu. yds. gravel refill, at 50 cents	31 73

	\$9,264 60
Extra teaming, labor and concrete	349 63
	\$9,614 23
Less amount retained	192 06

9,422 17

\$16,482 47**Florence Street.**

Labor	\$21,556 23
Pipe	3,871 59

Carried forward,\$25,427 82

<i>Brought forward,</i>	\$25,427 82
Teaming	2,247 50
Brick	1,942 01
Lumber	1,438 92
Cement	648 95
Castings	298 69
Blacksmithing	225 93
Sand	154 63
Powder and fuses	141 19
Gravel	138 50
Water Department	60 44
Rubber goods	51 36
Oil	19 11
Miscellaneous	132 22
Carpentry	79 09
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	\$33,006 36

Perkins Street.

Labor	\$5,913 79
Lumber	828 63
Teaming	476 50
Engine hire, etc.	438 00
Brick	81 00
Iron castings	42 40
Coal	74 69
Cement	26 00
Oil	11 70
Sand	4 45
Pipe	365 67
Miscellaneous	34 20
	<hr/>
	\$8,297 03

Private Land, Mozart, Selwyn and Arundel Streets.

Labor	\$5,768 84
Pipe	350 25
Teaming	532 25
Water	254 81
Brick	124 64
Cement	87 20
Blacksmithing	123 05
Iron work	78 45
Coal and oil	20 75
Sand	14 82
Powder	15 65
Miscellaneous	45 85
	<hr/>
	\$7,416 56

Walk Hill and Bourne Streets.

Labor	\$4,722 82
Teaming	575 00
Pipe	103 33
Blacksmithing, etc.	284 57
Powder	264 73
Brick	86 18
Cement	25 20
Water	114 82
Iron work	42 50
Coal	23 89
Oil	16 90
Miscellaneous	79 42
	<hr/>
	\$6,339 36
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Washington Street, Forest Hills to Boylston Street.

Labor	\$2,790 06
Pipe	223 51
Teaming	226 50
Blacksmithing	96 06
Brick	77 00
Cement	20 70
Rubber goods	51 36
Iron work	27 40
Powder and caps	32 68
Water	54 55
Miscellaneous	15 02
Lumber	33 22
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	\$3,648 06
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Chapman Avenue, between Tucker and Lyons Streets.

Labor	\$223 43
Pipe	348 61
Iron castings	64 20
Cement	28 00
Advertising	31 00

Thomas H. Connelly, Contractor.

648.30 cu. yds. rock excavation, at \$3	\$1,944 90	
855 lin. ft. 12 in., pipe house sewer, at 40 cents	342 00	
	<hr/>	<hr/>
<i>Carried forward,</i>	\$2,286 90	\$695 24

<i>Brought forward,</i>	\$2,286 90	\$695 24
430 lin. ft. 6 in., pipe underdrain, at 15 cents	64 50	
5 manholes on pipe sewer, at \$30	150 00	
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	\$2,501 40	
Less amount retained	375 21	
	<hr/>	2,126 19
		<hr/>
		\$2,821 43
		<hr/>

Coffey and Ashmont Streets.

Labor	\$154 28
Advertising	17 25
Pipe	620 55
Cement	82 50
Iron work	87 75

Quimby & Ferguson, Contractors.

325 lin. ft. 15-in., pipe house sewer, at \$1.158	\$376 35	
1,067 lin. ft. 12-in., pipe house sewer, at \$1.158	1,235 59	
100 lin. ft. 6-in., pipe underdrain, at 1 cent	1 00	
6 manholes, at \$27	162 00	
1 pipe chimney, at \$2.50	2 50	
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	\$1,777 44	
Less amount retained	266 62	
	<hr/>	1,510 82
		<hr/>
		\$2,473 15
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Evans Street, Morton Street to Existing Sewer.

Labor	\$142 20
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J. P. O'Connell, Contractor.

522.77 cu. yds. rock excavation, at \$4.50	\$2,352 47	
565 lin. ft. 12-in., pipe house sewer, at \$1.50	847 50	
3 manholes on pipe sewers, at \$40	120 00	
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	\$3,319 97	
Less amount retained	498 00	
	<hr/>	2,821 97
		<hr/>
		\$2,964 17
		<hr/>

Forest Avenue, Sections Nos. 2 and 3.

Labor	\$7,988 52
Pipe	1,101 79
Teaming	417 50
Lumber	257 17
Blacksmithing	281 70
Brick	292 25
Water	257 81
Rubber goods	193 65
Powder	118 91
Supporting track	105 34
Castings	100 85
Cement	97 78
Blasting logs	80 00
Iron pipe	88 60
Engine hire	50 00
Sand	24 62
Coal	20 88
Tools	10 84
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	\$11,488 21

Forest Avenue, Section No. 4.

Labor	\$3,932 63
Pipe	603 01
Teaming	216 00
Brick	109 88
Lumber	140 14
Water	154 52
Cement	65 65
Blacksmithing	66 46
Iron work	66 35
Gravel	24 50
Sand	18 12
Rubber goods	193 65
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	\$5,590 91

Grampian Way.

Labor	\$256 42
Pipe	183 27
Cement	13 20
Iron work	23 08

J. P. O'Connell, Contractor.

548.85 lin. ft. 12-in., pipe, at 50 cents,	\$274 43
3 manholes, at \$30	90 00
518.42 cu. yds. rock excavated, at \$3.80	1,970 00

2,334 43

\$2,810 40

Leedsville Street.

Pipe	\$543 63
Labor	93 58
Iron castings	47 43
Cement	36 30
Advertising	23 25
Teaming	5 00

Daniel E. Lynch, Contractor.

598.25 lin. ft. 12-in., pipe, at 50 cents,	\$299 13
2 manholes, at \$30	60 00
1 pipe chimney, at \$10	10 00
8.33 cu. yds. rock excavation, at \$3.50,	29 16
Extra work, per order Superintendent of Streets:	
480 lin. ft. old culvert removed, at \$1	480 00
133.33 cu. yds. extra excavation, at 60 cents	80 00
594.64 lin. ft. 18-in., pipe surface drain, at 56 cents	333 00
1 catch-basin, at \$45	45 00
159 lin. ft. 6-in., pipe house connection, at 65 cents	103 35
13 lin. ft. 6-in., pipe house connection, at \$1	13 00
3 cu. yds. rock excavation, at \$5	15 00
Extra work, per order Superintendent of Streets	29 04
	<hr/>
	\$1,496 68
Less amount retained	73 38

1,423 30

\$2,172 49

Private Land, Jones and Mascot Avenues.

Labor	\$2,377 53
Lumber	57 15
Pipe	72 78
Teaming	55 00
Iron castings	12 80
Sand	4 50
Cement	2 00

\$2,581 76

Neponset Avenue.

Labor	\$3,144 57
Pipe	534 40
Lumber	212 92
Pile driving	602 00
Teaming	206 50
Water	131 04
Brick	99 25
Blacksmithing	77 80
Castings	54 85
Cement	44 60
Iron pipe	29 40

\$5,137 33

Less sand excavated from trench, 20 double loads, at \$1.50	30 00
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\$5,107 33

Newhall Street and Newhall Avenue.

Labor	\$1,217 20
Pipe	448 99
Water	132 63
Brick	92 15
Teaming	63 00
Iron castings	48 99
Cement	29 00
Repairs	17 35
Blacksmithing	7 92
Sand	4 50

\$2,061 73

Percival Avenue.

Labor	\$3,533 55
Pipe	241 08
Blacksmithing	248 45
Powder and fuse	315 63
Teaming	230 50
Hardware	193 78
Water	82 73
Blasting logs	80 00
Brick	42 00
Coal	28 68
Iron castings	25 00
Boiler	22 00

<i>Carried forward,</i>	\$5,043 40
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<i>Brought forward,</i>										\$5,043 40
Cement	23 58
Hose	19 78
Glass	16 75
Sand	9 83
Gravel	5 72
										<hr/>
										<u>\$5,119 06</u>

Pierce Avenue.

Labor	.	.	.	.	.	.	.	.	.	\$1,316 50
Pipe	.	.	.	.	.	.	.	.	.	520 31
Water	.	.	.	.	.	.	.	.	.	137 06
Brick	.	.	.	.	.	.	.	.	.	93 00
Pile driving	.	.	.	.	.	.	.	.	.	90 00
Iron work	.	.	.	.	.	.	.	.	.	56 65
Lumber	.	.	.	.	.	.	.	.	.	20 02
Blacksmithing	.	.	.	.	.	.	.	.	.	20 11
Cement	.	.	.	.	.	.	.	.	.	52 33
Teaming	.	.	.	.	.	.	.	.	.	30 00
Sand	.	.	.	.	.	.	.	.	.	3 75
										<hr/>
										<u>\$2,339 73</u>

Mill and Rosemont Streets, Private Land and Brent Street.

Labor	.	.	.	.	.	.	.	.	.	\$6,126 13
Brick	.	.	.	.	.	.	.	.	.	1,311 75
Cement	.	.	.	.	.	.	.	.	.	761 25
Lumber	.	.	.	.	.	.	.	.	.	572 34
Gravel	.	.	.	.	.	.	.	.	.	455 94
Carpentry	.	.	.	.	.	.	.	.	.	314 75
Teaming	.	.	.	.	.	.	.	.	.	235 50
Sand	.	.	.	.	.	.	.	.	.	277 49
Pipe	.	.	.	.	.	.	.	.	.	141 42
Iron castings	.	.	.	.	.	.	.	.	.	48 80
Tools	.	.	.	.	.	.	.	.	.	24 50
Water	.	.	.	.	.	.	.	.	.	61 00
Blacksmithing	.	.	.	.	.	.	.	.	.	19 97
										<hr/>
										<u>\$10,350 84</u>

Normandy Street.

Labor	\$3,332 64
Brick	980 15
Cement	607 15
Teaming	557 00

<i>Carried forward,</i>	\$5,476 94
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<i>Brought forward,</i>	\$5,476 94
Sand	202 07
Carpentry	191 90
Pipe	162 23
Water	160 04
Iron castings	118 23
Rubber goods	61 20
Blacksmithing	57 24
Guttermouths	32 50
Miscellaneous	31 59

James A King, Contractor.

423.8 cu. yds. rubble stone delivered for use in masonry, at \$4	747 20
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 \$7,241 14
Devon-Street Outlet to Richfield Street.

Labor	\$7,385 53
Pipe	755 99
Brick	411 50
Lumber	273 82
Rubber goods	225 63
Blacksmithing	207 84
Cement	134 05
Teaming	361 00
Tools	86 61
Water	154 65
Damages	180 00
Boiler	60 00
Iron castings	59 70
Powder, etc.	56 32
Sand	31 90
Coal	9 27

 \$10,393 81
River, Fremont and Norfolk Streets.

Labor	\$310 46
Advertising	17 25
Iron castings	68 25
Drain pipe	471 69
Cement	34 50

J. P. O'Connell, Contractor.

346 ft. B. M. spruce sheathing, at \$1.00, \$0.35	
1,298.80 lin. ft. 12-in., house sewer, at 55 cents	714 34

Carried forward, \$714 69 \$902 15

<i>Brought forward,</i>	\$714 69	\$902 15
86.90 lin. ft. 15-in., house sewer, at 55 cents	47 80	
173 lin. ft. 6-in., underdrain, at 5 cents,	8 65	
7 manholes, at \$30	210 00	
1,068 cu. yds. rock, at \$3.50	3,740 56	
Extra work, pumping water, teaming, stock and furnishing concrete	230 58	
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	\$4,952 28	
Less amount retained as per contract	236 09	
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		4,716 19
		<hr/>
		\$5,618 34
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Shelton Street and Private Land.

Labor	\$168 96
Pipe	446 82
Iron castings	70 60
Cement	38 00

Daniel E. Lynch, Contractor.

13.67 cu. yds. rock excavation, at \$5.00	\$68 35	
1,468.67 lin. ft. 12-in., pipe sewer, at \$1.25	1,835 84	
9 manholes, at \$50.00	450 00	
Extra work, per order Superintendent of Streets	90 00	
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	\$2,444 19	
Less amount retained	117 71	
	<hr/>	
		2,326 48
		<hr/>
		\$3,050 86
		<hr/>

Shamrock-Street Outlet.

Labor	\$5,657 74
Brick	1,273 00
Lumber	636 96
Cement	626 10
Carpentry	497 07
Teaming	480 00
Engine hire	308 00
Sand	160 45
Rubber goods and oil clothing	161 87
Hardware	194 91
Screenings	70 00
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Carried forward,

\$10,066 10

STREET DEPARTMENT—SEWER DIVISION. 321

<i>Brought forward,</i>	\$10,066 10
Coal and oil	75 31
Pipe	40 71
Castings	36 70
Paving	37 00
Blacksmithing	24 91
Treenails	21 50

W. S. Rendle, Contractor.

194 piles driven, at \$2.75	533 50
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J. A. King, Contractor.

212.48 cu. yds. rubble stone masonry, at \$4.	849 92
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\$11,685 65
Tolman Street, between Neponset Avenue and Norwood Street.

Labor	\$1,233 41
Pipe	264 35
Pile driving	249 10
Water	91 40
Teaming	86 00
Brick	55 20
Lumber	29 41
Cement	27 00
Iron castings	25 60
Miscellaneous	3 98

\$2,065 45

Less sand excavated from trench, 25 double loads, at \$1.50	37 50
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\$2,027 95
Washington Street, between Main Sewer and Summit, near Sanford Street.

Labor	\$243 98
Pipe	397 21
Cement	61 00
Iron work	46 31
Advertising	18 50

Daniel M. Dwyer, Contractor.

1,112.60 lin. ft. 12-in., pipe sewer, at 20 cents	\$222 52
5 manholes, at \$30	150 00

Carried forward, \$372 52 \$767 00

<i>Brought forward,</i>	\$372 52	\$767 00
488.91 cu. yds. rock excavation, at \$3.90	1,906 75	
Extra work, per order Superintendent of Streets	38 47	
	<hr/>	
	\$2,317 74	
Less amount retained	115 89	
	<hr/>	2,201 85
		<hr/>
		\$2,968 85

Washington Street, Miller's Lane to Grant Place.

Labor	\$277 79
Advertising	24 00
Pipe	263 17
Iron castings	11 20

P. and F. E. McCarthy, Contractors.

937.62 lin. ft. 12-in., pipe house sewer, at 50 cents	\$468 81
4 manholes on pipe sewers, at \$32	128 00
594.55 cu. yds. rock excavation, at \$3.49	2,074 98
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	\$2,671 79
Less amount retained	133 59
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	2,538 20
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	\$3,114 36

Athelwold Street.

Labor	\$241 72
Cement	229 50
Gravel	21 70
Iron castings	109 11
Teaming	15 00
Drain pipe	645 42
Guttermouths	58 50
Printing and advertising	65 96
Flagging	8 00

J. P. O'Connell, Contractor.

55 lin. ft. earth excavation, at \$1.50	\$82 50
395.38 cu. yds. rock excavation, at \$3	1,186 14
22.13 cu. yds. American concrete, at \$4	88 52
	<hr/>
<i>Carried forward,</i>	\$1,357 16
	<hr/>
	\$1,394 91

<i>Brought forward,</i>	\$1,357 16	\$1,394 91
20.43 cu. yds. Portland concrete, at \$5,	102 15	
2.67 cu. yds. brick masonry, at \$5 .	13 35	
13.54 cu. yds. rubble stone masonry, at \$3.50	47 39	
131.25 lin. ft. 15-in., pipe house sewer, at 60 cents	78 75	
900.52 lin. ft. 12-in., pipe house sewer, at 50 cents	450 26	
379.50 lin. ft. 6-in., pipe house drain, at 40 cents	151 80	
151.20 lin. ft. 18-in., surface drain, at 35 cents	52 92	
210.51 lin. ft. 15-in., surface drain, at 35 cents	73 68	
280.43 lin. ft. 12-in., surface drain, at 35 cents	98 15	
116.39 lin. ft. 10-in., surface drain, at 35 cents	40 74	
7 manholes, at \$30	210 00	
4 catch-basins, at \$40	160 00	
3 drop inlets, at \$13	39 00	
18.3 cu. yds. gravel refill, at 50 cents	9 15	
18.3 cu. yds. extra earth excavation, at 80 cents	14 64	
Extra work, per order Superintendent of Streets	11 50	
	<hr/>	2,910 64
		<hr/>
		<u>\$4,305 55</u>

Bernard Street.

Labor	\$208 09
Advertising	6 75
Drain pipe	3,613 35
Cement	261 30
Iron pipe	43 50
Iron castings	130 36
Teaming	15 00
Guttermouths	84 50

Collins & Ham, Contractors.

2 cu. yds. rock excavation, at 1 cent .	\$0 02
89.58 cu. yds. concrete, at \$4.75 .	425 50
34.66 cu. yds. brick masonry, at \$10.75	372 60
32 lin. ft. 12-in., pipe house sewer, at 60 cents	19 20

<i>Carried forward,</i>	\$817 32	\$4,362 85
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<i>Brought forward,</i>	\$817 32	\$4,362 85
323.50 lin. ft. 30-in., pipe catch-basin drain, at 60 cents	194 10	
1,001.45 lin. ft. 24-in., pipe catch- basin drain, at 40 cents	400 58	
401.30 lin. ft. 18-in., pipe catch-basin drain, at 40 cents	160 52	
30 lin. ft. 15-in., pipe catch-basin drain, at 40 cents	12 00	
84.50 lin. ft. 12-in., pipe catch-basin drain, at 35 cents	29 58	
89 lin. ft. 10-in., pipe catch-basin drain, at 30 cents	26 70	
80 lin. ft. 6-in., pipe underdrain at 10 cents	8 00	
10.03 cu. yds. rubble stone masonry at \$4	40 12	
708 lin. ft. 6-in., pipe house drain at 26 cents	184 08	
1 12-in. pipe slant placed in old 24-in. by 30-in. brick sewer, at \$1	1 00	
1 manhole on catch-basin drain, at \$30,	30 00	
10 catch-basins, at \$33	330 00	
1 drop inlet, at \$12	12 00	
82 lin. ft. earth excavation, at \$3	246 00	
Extra work, per order Superintendent of Streets	10 93	
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	\$2,502 93	
Less amount retained	124 60	
	<hr/>	
		2,378 33
		<hr/>
		\$6,741 18
		<hr/>

Burt Street, Dorchester.

Guttermouths	\$39 00
Labor	196 18
Drain pipe	740 48
Iron castings	125 00
Advertising	33 50
Teaming	7 50
Cement	94 60
Iron pipe	28 80
Flagging	8 00

J. P. O'Connell, Contractor.

1,496.85 cu. yds. rock excavation, at \$4	\$5,987 40
1.76 cu. yds. concrete, at \$4	7 04
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<i>Carried forward,</i>	\$5,994 44
	<hr/>
	\$1,273 06

<i>Brought forward,</i>	\$5,994 44	\$1,273 06
62.70 lin. ft. earth excavation for culvert, at 50 cents	31 35	
250 lin. ft. 15-in., house sewer, at 43 cents	107 50	
1,040.73 lin. ft. 12-in., house sewer, at 43 cents	447 51	
679.75 lin. ft. 12-in., pipe catch-basin drain, at 25 cents	169 94	
41.66 lin. ft. 10-in., pipe catch-basin drain, at 25 cents	10 42	
980.50 lin. ft. 6-in., house drain, at 30 cents	294 15	
2 slants in brick sewer, at \$1	2 00	
7 manholes, at \$30	210 00	
4 catch-basins, at \$40	160 00	
2 drop inlets, at \$10	20 00	
.53 cu. yds. brick masonry, at \$14	7 42	
55.30 cu. yds. rubble masonry, at \$3.50,	193 55	
27.66 sq. yds. rubble paving, at \$1	27 66	
10.39 cu. yds. granite covering, at \$7	72 73	
	<hr/>	
	\$7,748 67	
Less amount retained	387 43	
	<hr/>	
		7,361 24
		<hr/>
		<u>\$8,634 30</u>

Columbia Road, Section No. 4.

Labor	\$188 44
Pipe	704 13
Castings	319 46
Cement	84 00
Advertising	19 50
Teaming	12 50
Guttermouths	13 00

Daniel E. Lynch, Contractor.

192 ft. B. M. spruce, other than shoring and sheeting, at \$27	\$5 18
951.92 lin. ft. 12-in., pipe house sewer, at 53 cents	504 52
84 lin. ft. 10-in., pipe catch-basin drain, at 43 cents	36 12
288 lin. ft. 6-in., pipe house drain, at 45 cents	129 60
12 slants in old sewer, at \$1	12 00
8 manholes, at \$30	240 00

<i>Carried forward,</i>	\$927 42	\$1,341 03
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<i>Brought forward,</i>	\$927 42	\$1,341 03
6 catch-basins, at \$39	234 00	
2 drop inlets, at \$10	20 00	
35.56 cu. yds. gravel refill, at 35 cents,	12 45	
Extra work, per order Superintendent of Streets	36 71	

\$1,230 58

Less amount retained 179 08

1,051 50

\$2,392 53

Elizabeth Street.

Labor	\$344 61
Pipe	731 84
Iron castings	77 85
Advertising	34 90
Cement	51 00
Guttermouths	32 50
Teaming	5 00

Thomas H. Connolly, Contractor.

1,140.26 cu. yds. rock excavation, at \$4	\$4,561 04
548 lin. ft. 15-in., pipe house sewer, at 50 cents	274 00
766 lin. ft. 12-in., pipe house sewer, at 55 cents	421 30
50 lin. ft. 18-in., pipe culvert, at \$1.00	50 00
351 lin. ft. 15-in., pipe catch-basin drain, at 25 cents	87 75
505 lin. ft. 12-in., pipe catch-basin drain, at 25 cents	126 25
260 lin. ft. 6-in., pipe house drain, at 35 cents	91 00
1 15 by 15 Y branch, placed	1 00
7 manholes, at \$45	315 00
4 catch-basins, at \$45	180 00

\$6,107 34

Less amount retained 916 10

5,191 24

\$6,468 94

Fairmount Street.

Pipe	\$1,471 97
Iron castings	236 47

Carried forward,

\$1,708 44

<i>Brought forward,</i>	\$1,708 44
Guttermouths	156 00
Cement	80 60
Teaming	45 00
Stone	32 00
Advertising	31 00
Labor	207 06

P. and F. E. McCarthy, Contractors.

42.90 cu. yds. rock excavation, at \$2.50	\$107 25
3 cu. yds. concrete, at \$1.50	4 50
52 lin. ft. 24-in., pipe culvert, at 15 cents	7 80
40 lin. ft. 18-in., pipe culvert, at 15 cents	6 00
1,612 lin. ft. 12-in., pipe house sewer, at 36 cents	580 32
125 lin. ft. 18-in., pipe catch-basin drain, at 25 cents	31 25
414 lin. ft. 15-in., pipe catch-basin drain at 23 cents	95 22
1,474 lin. ft. 12-in., pipe catch-basin drain, at 20 cents	294 80
264 lin. ft. 10-in., pipe catch-basin drain, at 15 cents	39 60
5.72 cu. yds. rubble stone masonry, at \$5.00	28 60
2,132 lin. ft. 6-in., pipe house drain, at 20 cents	426 40
8 manholes, at \$28	224 00
17 catch-basins, at \$43	731 00
7 drop inlets, at \$14	98 00

\$2,674 74

Extra work, per order Superintendent of streets:

918 lin. ft. old culvert removed, at \$1	918 00
740 lin. ft. house sewer, at 28 cents	207 20
688.5 lin. ft. 6-in., pipe house drain, at 20 cents	137 70
750 lin. ft. catch-basin drain, at 20 cents	150 00
Teaming and labor	9 21

\$4,096 85

Less amount retained 401 21

3,695 64

\$5,955 74

Tonawanda Street.

Labor	\$178 71
Pipe	706 54
Cement	132 50
Iron castings	189 74
Guttermouths	51 00
Stone	14 00
Teaming	22 50
Advertising	23 00

P. and F. E. McCarthy, Contractors.

1,600 lin. ft. 12-in., pipe sewer, at 43 cents	\$688 00
70 lin. ft. 12-in., catch-basin drain, at 28 cents	19 60
80 lin. ft. 10-in., catch-basin drain, at 28 cents	22 40
1,000 lin. ft. 6-in., house drain, at 30 cents	300 00
9 manholes, at \$28	252 00
6 catch-basins, at \$35	210 00
3 drop inlets, at \$12	36 00
100 cu. yds. rock excavation, at \$3.00	300 00

\$1,828 00

Less amount retained274 20

1,553 80

\$2,871 79**Columbus Avenue, Old Heath Street to Ritchie Street.**

Labor	\$2,786 91
Teaming	79 50
Iron castings	17 00
Pipe	401 16
Miscellaneous	2 75

\$3,287 32**Norfolk Avenue (Dorchester Brook).**

Labor	\$7,327 30
Brick	2,536 89
Teaming	2,447 50
Cement	1,111 00
Gravel	1,173 60
Sand	758 35

Carried forward,

\$15,354 64

<i>Brought forward,</i>	\$15,354 64
Lumber	660 90
Trench machine and engine hire	775 24
Carpentry	494 07
Coal	233 75
Water	136 13
Pipe	113 05
Blacksmithing	68 89
Iron work	21 20
Miscellaneous	221 39
	<hr/>
	\$18,079 26

Harrison Avenue.

Labor	\$21,250 12
Lumber	2,234 68
Teaming	3,096 50
Brick	1,389 58
Cement	972 00
Trench machine	835 00
Screenings	784 00
Sand	487 75
Pipe	529 41
Engine hire	294 00
Carpentry	209 74
Coal	158 40
Paving	149 50
Rubber goods	154 12
Blacksmithing	123 82
Miscellaneous	128 02
Oil	58 29
Castings	55 47
Hose	31 68

William H. Sias, Contractor.

31,239.5 lin. ft. piles furnished and driven, at 11 $\frac{1}{8}$ cents	3,475 39
	<hr/>
	\$36,417 47

Shawmut Avenue and Roxbury Street

Labor	\$1,363 09
Teaming	1,356 00
Brick	600 12
Cement	183 85
Lumber	51 86
Sand	148 25
Carpentry	147 67

<i>Carried forward,</i>	\$3,850 84
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<i>Brought forward,</i>	\$3,850 84
Blacksmithing	63 64
Iron work	8 30
Paving	93 16
Miscellaneous	20 65
Coal	13 19
Water	84 73
	<hr/>
	\$4,134 51

West Roxbury Low Level Sewer.

Labor	\$1,330 31
Brick	1,929 37
Cement	795 00
Pipe	7 25
Castings	56 22
Advertising and printing	73 94

J. P. O'Connell, Contractor.

1,200 lin. ft. earth excavation, for brick sewer, at \$2	\$2,400 00
1,512 cu. yds. rock excavation, at \$4.50	6,804 00
329 cu. yds. brick masonry, at \$4.25	1,398 25
628 lin. ft. underdrain, at 20 cents	125 60
35 pipe connections in brick sewer, at 10 cents	3 50
7 cu. yds. gravel filling, at 10 cents	70
Extra work, per order Superintendent of Streets :	
125 cu. yds. brick masonry backing, at \$4.25	531 25
Cutting braces, teaming, etc.	104 65
	<hr/>
	\$11,367 95
Less amount retained	536 60
	<hr/>
	10,831 35
	<hr/>
	\$15,023 44

Fullerton Street.

Labor	\$260 30
Pipe	528 59
Cement	168 75
Printing and advertising	83 95
Iron work	88 88
Guttermouths and flagging	34 00

Carried forward, \$1,164 47

<i>Brought forward,</i>	\$1,164 47
Teaming	1 50
Coal	4 27

Thomas H. Connolly, Contractor.

464.93 lin. ft. 18-in., pipe sewer excavation and refill, at 55 cents	\$255 71	
30.65 lin. ft. 12-in., pipe sewer excavation and refill, at 55 cents	16 86	
499.05 lin. ft. 12-in., pipe catch-basin drain, at 35 cents	174 67	
36.19 lin. ft. 10-in., pipe catch-basin drain, at 35 cents	12 67	
533 lin. ft. 6-in., house drain, at 38 cents	202 54	
4 manholes on pipe sewers, at \$35	140 00	
4 catch-basins excavation and refill, at \$40	160 00	
63 cu. yds. concrete in place, at \$3	189 00	
4.157 M. ft. spruce lumber placed and secured, at \$21	87 30	
3.730 M. ft. B. M. spruce sheeting and shoring left in place, at \$12	44 76	
5.29 cu. yds. rock excavation, at \$5	26 45	
467 lin. ft. 6 in., pipe underdrain, at 16 cents	74 72	
Extra labor, putting up locker, moving pipe and filling	13 80	
Extra work on account gas-pipes etc.,	160 00	
		1,558 48
		<u>\$2,728 72</u>

Parker, Turner and Norway Streets.

Labor	\$491 38
Brick	1,054 60
Cement	610 50
Pipe	1,439 18
Guttermouths	253 00
Iron work	323 15
Advertising and printing	82 89
Flagging	30 00
Teaming	2 50

J. P. O'Connell, Contractor.

566 lin. ft. earth excavation, for brick sewer, at \$1.00	\$566 00	
20.1 cu. yds. excavation below grade, at 60 cents	12 06	
		<u>\$4,287 20</u>
<i>Carried forward,</i>	\$578 06	

<i>Brought forward,</i>	\$578 06	\$4,287 20
155.25 cu. yds. brick masonry (American cement mortar), at \$4 . . .	621 00	
1 cu. yd. brick masonry (Portland cement mortar), at \$4 . . .	4 00	
170.6 cu. yds. concrete in place, at \$3.80	671 08	
17.66 M. ft. B. M. lumber left in place, at \$25	441 50	
.989 M. ft. B. M. spruce sheeting and shoring left in place, at \$13 . . .	12 86	
8,753 lin. ft. spruce piles driven and secured, at 17 cents	1,488 01	
371.25 lin. ft. 12-in., pipe sewer, at 60 cents	222 75	
1,146.4 lin. ft. 18-in., pipe sewer, at 55 cents	630 52	
128.26 lin. ft. 10-in., pipe catch-basin drain, at 35 cents	44 89	
553 lin. ft. 8-in., pipe underdrain, at 20 cents	111 80	
1,422.9 lin. ft. 6-in., pipe underdrain, at 16 cents	227 66	
1,670.12 lin. ft. 6-in., pipe house drain, at 35 cents	584 54	
48 pipe connections laid in brick sewer, at 10 cents	4 80	
6 manholes built on pipe sewers, at \$18	108 00	
15 catch-basins, at \$20	300 00	
10.55 cu. yds. rock excavation, at \$5	52 75	
Extra work, per order Superintendent of Streets, labor filling, material, etc.,	536 04	
	<hr/>	
	\$6,640 26	
Less amount retained	305 21	
	<hr/>	
		6,335 05
		<hr/>
		<u>\$10,622 25</u>

Peterborough Street, Roxbury.

Brick	\$1,867 50
Cement	1,127 35
Labor	920 75
Iron castings	89 35
Printing and advertising	85 86
Pipe	62 52
Traps and hooks	42 00

Carried forward,\$4,195 33

<i>Brought forward,</i>	\$4,195 33
Guttermouths	39 00
Iron water pipe	29 12

Cullen Brothers, Contractors.

1,714.94 lin. ft. earth excavation, for 30 in. by 36 in., brick house, sewer, at \$2.30	\$3,944 36
35.36 lin. ft. earth excavation, for trench for 3-ft. 6-in. circular brick catch- basin drain, at \$2.30	81 33
14.64 lin. ft. earth excavation, for trench for 3-ft. circular brick catch- basin drain, at \$2.30	33 67
404.47 cu. yds. brick masonry (Amer- ican cement mortar), at \$3.80	1,536 99
450.19 cu. yds. concrete, at \$2	900 38
40.78 M. ft. B. M. spruce lumber, left in place, other than sheeting and shoring, at \$24	978 72
98.99 M. ft. B. M. spruce lumber, left in place, other than sheeting and shoring, at \$23	2,276 77
111.36 lin. ft. 18-in., pipe house sewer, at \$2	222 72
1,884.50 lin. ft. 8-in., pipe underdrain, at 16 cents	301 52
153 pipe connections laid in brick, house sewer, at 10 cents	15 30
72.88 cu. yds. rock excavation, at \$5	364 40
1,003 spruce piles driven and secured, at \$3.25	3,259 75
Extra work, per order Superintendent of Streets	725 94
	<hr/>
	\$14,641 85
Less amount retained	695 80

13,946 05

\$18,209 50

Ruggles Street.

Labor	\$458 00
Cement	676 50
Brick	766 62
Pipe	119 24
Castings	3 50

<i>Carried forward,</i>	\$2,023 86
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Brought forward,

\$2,023 86

Daniel E. Lynch, Contractor.

943.09 lin. ft. earth excavation and re- fill, for 2-ft. 6-in. by 3 ft., brick sewer, at \$1.13	\$1,065 69
19.60 cu. yds. rock excavation, at \$5	98 00
222.06 cu. yds. brick masonry (Ameri- can cement mortar), at \$4	888 24
193.97 cu. yds. concrete, at \$4	775 88
16.10 M. ft. B. M. spruce lumber, at \$28	450 80
22.2 cu. yds. earth excavation below sewer grade, at 80 cents	17 76
24.9 cu. yds. gravel refill below grade, at 50 cents	12 45
5.35 M. ft. B. M. spruce lumber left in place, at \$12	64 20
922.76 lin. ft. 8-in., pipe underdrain, at 20 cents	184 55
9,272 lin. ft. spruce piles, at 20 cents	1,854 40
97 pipe connections, at 10 cents	9 70
Extra work, per order Superintendent of Streets, removing Corduroy road	290 15
Repairing 18-inch connections at Hunt- ington avenue	562 58

\$6,274 40

Less amount paid last year 3,971 59

2,302 81

\$4,326 67

Plus repair of same 2,942 97

\$7,269 64**Vancouver Street.**

Labor	\$575 66
Brick	379 50
Cement	213 40
Pipe	41 61
Castings	19 44
Teaming	14 75

Daniel E. Lynch, Contractor.

249.55 lin. ft. earth excavation and refill, for 2 ft. 6 in. by 3 ft. brick sewer, at 98 cents	\$244 56
3.64 cu. yds. rock excavation, at \$5	18 20

Carried forward,

\$262 76

\$1,244 36

<i>Brought forward,</i>	\$262 76	\$1,244 36
59.26 cu. yds. brick masonry (American cement mortar), at \$4 . . .	237 04	
51.30 cu. yds. concrete, at \$4 . . .	205 20	
4.82 M. ft. B. M. spruce lumber, at \$28	134 96	
1.56 M. ft. B. M. spruce lumber left in place, at \$12	18 72	
248.88 lin. ft. pipe underdrain, at 20 cents	49 78	
4,020 lin. ft. spruce piles, at 20 cents,	804 00	
27 pipe connections, at 10 cents	2 70	
	<hr/>	1,715 16
		<hr/>
		\$2,959 52
Plus repairs of same		439 92
		<hr/>
		\$3,399 44
		<hr/>

Atlantic Avenue, between South Market and Commercial Wharf.

Labor	\$514 19
Pipe	221 20
Cement	43 20
Supporting track	37 42
Iron castings	32 06

Daniel M. Dwyer, Contractor.

175 cu. yds. rock excavation, at \$5 . . .	\$875 00
44 lin. ft. 15 in., pipe sewer, including manholes, etc., at \$4.50 . . .	198 00
463.15 lin. ft. 12 in., pipe sewer, including manholes, etc., at \$4.50 . . .	2,084 18
	<hr/>
	\$3,157 18
Less amount retained	157 86
	<hr/>
	2,999 32
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	\$3,847 39
	<hr/>

Central and India Streets.

Labor	\$9,461 44
Teaming	2,856 75
Brick	1,722 18
Engine and pump hire	1,280 09
Lumber	1,103 09
Cement	1,102 78
Trench machine	504 00
Screenings	461 28
Coal	417 10

<i>Carried forward,</i>	\$18,908 71
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<i>Brought forward,</i>	\$18,908 71
Sand	345 05
Paving	339 05
Carpentry	284 98
Miscellaneous	288 24
Rubber goods	189 59
Gravel	199 52
Pipe	139 58
Blacksmithing	88 81
Water pipe	108 12
Oil	69 01
Iron castings	27 59
	<hr/>
	\$20,988 25

Commercial and Clinton Streets.

Blacksmithing	\$15 85
Labor	11,242 73
Teaming	1,057 00
Lumber	773 47
Brick	510 00
Engine and pump hire	459 66
Cement	353 75
Trench machine	160 00
Coal	184 69
Pipe	136 33
Carpentry	130 89
Miscellaneous	101 76
Tools, etc.	95 69
Oil	58 65
Sand	49 57
Screenings	46 58
Canvas	46 50
Castings	39 60
	<hr/>
	\$15,462 72

Charles and Allen Streets.

Labor	\$473 73
Printing and advertising	78 13
Teaming	1 50

Daniel E. Lynch, Contractor.

520 lin. ft. earth excavation, for trench for brick sewer, at \$1.57	\$816 40
70 cu. yds. earth excavation below grade, at 80 cents	56 00
114 cu. yds. brick masonry (American cement mortar), at \$4.90	558 60
125 cu. yds. concrete, at \$4.25	531 25

<i>Carried forward,</i>	\$1,962 25	\$553 36
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STREET DEPARTMENT—SEWER DIVISION. 337

<i>Brought forward,</i>	\$1,962 25	\$553 36
10 M. ft. B. M. spruce lumber, secured, at \$30	300 00	
40 M. ft. B. M. spruce lumber (sheeting and shoring), at \$13	520 00	
20 cu. yds. rock excavation, at \$5	100 00	
215 spruce piles driven, at \$3	645 00	
290 cu. yds. gravel refill, at \$2	580 00	
	<hr/>	
	\$4,107 25	
Less amount retained	616 09	
	<hr/>	
		3,491 16
		<hr/>
		\$4,014 52
		<hr/>

South Market Street.

Labor	\$2,080 25
Drain pipe	266 26
Teaming	225 50
Lumber	94 64
Brick	65 40
Water	48 95
Iron pipe	19 20
Iron work	19 00
Miscellaneous	14 75
Cement	29 70
	<hr/>
	\$2,863 65
	<hr/>

Cove Street.

Labor	\$16,429 15
Hire of engines and pumps	330 50
Fuel and oil	141 26
Carpentry	598 63
Water	132 28
Teaming	1,852 69
Brick	2,943 21
Iron castings	69 90
Sands, screenings and filling	720 66
Drain pipe	121 88
Cement	1,419 61
Hire of trench machine	312 00
Lumber	1,509 08
Miscellaneous	999 85
	<hr/>
	\$27,580 70
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Mt. Washington Avenue and Federal Street.

Labor	\$17,141 17
Lumber	2,929 92
	<hr/>

Carried forward, \$20,071 09

<i>Brought forward,</i>	\$20,071 09
Teaming	1,441 50
Pipe	135 51
Cement	1,141 35
Sand, gravel and screenings	731 02
Trench machine hire	1,412 97
Engine and pump	2,946 14
Fuel	863 68
Brick	1,508 93
Carpentry	869 29
Pile driving	602 00
Miscellaneous	1,285 72

W. S. Rendle, Section One.

12,148.36 lin. ft. spruce piles, furnished and driven by daylight, at 9 $\frac{3}{4}$ cents	\$1,184 47
1,065.10 lin. ft. ditto driven by night, at 10 cents	106 51
	<hr/>
	\$1,290 98
Less amount retained	193 65
	<hr/>
	1,097 33

W. S. Rendle, Section Two.

3,785 lin. ft. spruce piles, furnished and driven, at 11 cents	\$416 35
Less amount retained	62 45
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	353 90
	<hr/>
	\$34,460 43

Summer Street.

Labor	\$13,148 19
Lumber	1,554 45
Bricks	1,301 42
Cement	801 00
Drain pipe	104 71
Pile driving	422 79
Teaming	1,458 50
Trench machine hire	428 00
Engine and pump	955 73
Coal	295 68
Carpentry	113 86
Sand, gravel and screenings	399 48
Miscellaneous	20 04

W. H. Sias, Contractor.

8,273.84 lin. ft. spruce piles, furnished and driven by daylight, at 12 cents,	\$992 86
Less amount retained	148 93
	<hr/>
	843 93
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	\$21,847 78

APPENDIX F.

REPORT OF THE DEPUTY SUPERINTENDENT OF THE
STREET-CLEANING DIVISION.

923 TREMONT BUILDING, BOSTON, February 1, 1898.

MR. BENJAMIN W. WELLS, *Superintendent of Streets*:

DEAR SIR: I have the honor to submit herewith the annual report of the Street-Cleaning Division of the Street Department for the year ending January 31, 1898.

The following table will show that never in the history of the Street-Cleaning Division have the streets of Boston been cleaned at a more economical figure than during the past year, despite the growth of the city, and the added burdens on the division:

	Exclusive of supervision.	Including supervision.
1891 (9 months).....	\$16 94	\$18 94
1892.....	16 77	18 97
1893.....	13 99	16 77
1894.....	12 57	15 61
1895 (old districts).....	16 08	19 49
1895 (new districts).....	11 80	14 40
1896.....	12 34	14 93
1897.....	10 98	13 30

CHARACTER OF THE CITY PAVEMENT.

Macadam, in a much-travelled street, costs in the matter of cleaning, out of all proportion to its merits as a road surface.

Asphalt, which may not have other merits as a street surface, affords the street-cleaner his best opportunities. Granite block pavement occupies perhaps an intermediate place from a street-cleaner's point of view, but the modern block pavement, with the joints filled with pitch and pebble, is most satisfactory in point of cleanliness, as has been clearly demonstrated in the city proper; since its adoption in 1891 in the business district, where the most débris accumulates, and where the work is done every night, the cost per mile is the lowest in the city.

ADVANTAGES OF THE MODERN PAVEMENT.

One somewhat obvious reason for this lies in the evenness of the surface on the modern pavement, a prime factor in any attempt to clean the street. Another reason not so obvious, is—I am convinced—the lessened forcing up between the interstices of the pavement of dirt from below. This would not seem to be a serious matter, till one tried to keep the surface clean, and then a constant supply of soil would be found by the sweeper, which can come from no other source. Excessive dust in street-sweeping is a serious matter to storekeepers, and is doubtless important from a sanitary point of view, while watering the street brings about conditions that are found when the weather is wet. These observations are offered, as showing how small and special considerations will materially affect the cost of the work.

DUMPING FACILITIES.

A more serious question, from an administrative point of view, and one peculiar to Boston, is the lack of dumping facilities. We have only one dumping-wharf at our disposal, and few other means of disposing of sweepings.

It is clearly a waste of effort in a city like Boston, with a large water front, to haul street-sweepings a mile to the dumping-ground. The remedy is not, perhaps, simple, but the addition to our present facilities of one dumping-wharf at the North End would materially improve our position. This change is made all the more necessary at the present time, from the early probability of losing the Cambridge lowlands as a dumping-ground, where the sweepings from the West and North Ends are now taken.

STREET-SWEEPING METHODS.

The sweeping-machines, that have figured so long as a part of the city's street-cleaning outfit, do a certain kind of work on certain kinds of street surfaces very well, but the most efficient street-cleaning under all conditions is beyond them. The machines sweep an uneven pavement very imperfectly, and are well nigh useless in dealing with mud. A minor grievance, controlled to a great extent by the watering cart, is the cloud of dust raised by the machines. Dampening the streets does not overcome this trouble entirely, and in the summer, where upper windows of buildings or dwellings may be open, deposits of dust are serious matters to the merchant and housekeeper, even where the dust can only find ingress to buildings through the open spaces of doors and windows. The best results are practically certain with hand-sweeping, and, with the growing demand of the public for clean streets, and the modern insistence on cleanliness as a sanitary measure, hand-sweeping must come in time. My experience with hand-sweeping—and we have already a great deal of it in connection with the push-cart patrol system—

confirms me in the belief that it raises less dust and is more thorough. A great advantage in hand-sweeping, which must be necessarily done by assigning sweepers to particular sections of the street is, that a man is on the ground all day, and serves many of the purposes of a street-cleaning patrol.

The block system, as it is called, or that of assigning one man to a certain area of a street or streets, has been found to work the best. The man is directly responsible for the condition of the block, acquires a familiarity with the ground and the best means of doing the work, adapting himself to the local conditions; and generally the block system operates to bring the streets under a more minute and constant treatment. I am still of the belief, as expressed in previous reports, that a better discipline and morale of the force would be secured by uniforming the push-cart sweepers.

The clean streets found in European cities are due to the labor of many more persons than are ever seen in this country engaged in this work. Men, women and even children are hired, often at very small wages, and then the expense is much greater than the average American is ready to pay for sweeping the streets. American public opinion would not tolerate much that is a considerable factor in European street cleaning — as, for example, the employment of women and children — but is demanding a higher scale of street cleanliness each succeeding year and will unquestionably become reconciled to the expense of the best work. It is intended to make whatever changes are made in the methods of the division, in line with the above observations, so far as will be permitted by the exigencies of the work and the appropriation.

SOME UNCALLED-FOR WORK.

A matter that appears to me worthy of careful consideration is that of taking away from this division the clearing of sidewalks of snow around public grounds and public buildings. This latter work, especially, comes at a time when the resources of the division are strained to the utmost in attending to the imperative needs of traffic in the removal of snow. It is not street cleaning, nor calls necessarily for a class of labor that might be supposed to constitute the staff of a street-cleaning department.

CITY ORDINANCES.

Respecting litter on the streets, the city ordinances embody complete and adequate legislation on the subject, but their enforcement has been so lax that no good results have been attained. It would not, perhaps, be fair to say there was no improvement in the public carefulness about littering the streets. There is a slow movement for the better, evident in the statistics of the department, but public sentiment does not appear to countenance prosecutions on a severe scale as yet, and until they do, the department and the police will have doubtless to wait. Most of

the fine street-cleaning in European cities is due to the rigid enforcement of ordinances, no more exacting than the code obtaining in this city, and public opinion there, having seen the advantages of a clean street, sustains the public prosecutor in his work.

I would not feel that this report was complete without expressing my appreciation of the faithfulness of the foremen, subforemen and workmen who have ably and willingly seconded my efforts in the department.

Respectfully submitted,

JOSHUA ATWOOD, 3d,

Deputy Superintendent.

FINANCIAL STATEMENT.

Appropriation, 1897-98	\$310,000 00
Transfer to Paving Division	6 62
Expenditures for 1897-98	309,993 38
Total amount of appropriation	<u>\$310,000 00</u>

OBJECTS OF EXPENDITURES.

Superintendence.

Salary of Superintendent	\$3,000 00
Office pay-rolls	3,942 74
Stationery	300 77
Printing	904 34
Board of horses	782 76
Telephone service	395 02
	<u>\$9,325 63</u>

CLEANING STREETS.

Including Cost of Sweeping, Loading, and Removal of Street Dirt.

District 1. South Boston	\$15,537 96
Districts 2-3. East Boston and Charlestown	12,686 89
District 7. Roxbury	15,856 34
District 8. South End:	
Day gang	14,195 02
Night gang	40,507 37
District 9. Back Bay	5,514 27
District 10. West End and North End	38,210 71
Total cost of cleaning streets	<u>\$142,508 56</u>

MISCELLANEOUS WORK.

This shows the cost of such work as may not be characterized the same in all districts.

Including Miscellaneous Work, Sweeping and Carting of Leaves, etc.

District	1.	South Boston	.	.	.	.	\$303 41
Districts	2-3.	East Boston and Charlestown	.	.	.	.	179 51
District	7.	Roxbury	.	.	.	.	372 14
District	8.	South End:					
		Day gang	.	.	.	.	537 90
		Night gang	.	.	.	.	87 85
District	9.	Back Bay	.	.	.	.	39 60
District	10.	West End and North End	.	.	.	.	516 00
Brighton	.	.	.	.	.	.	554 24
Total cost							<u>\$2,590 65</u>

CLEANING CROSSINGS.

Including Cost of Manual and Machine Labor.

Cost of cleaning crossings	.	.	.	.	.	\$993 70
Removing snow by patrol	.	.	.	.	.	2,713 87
Total cost						<u>\$3,707 57</u>

PATROLLING BY DISTRICTS.

This Includes the Cost of Picking up and Removal of Refuse Papers, etc., from the Streets.

Cost of paper patrol	\$1,614 95
--------------------------------	------------

PUSH-CART PATROL SYSTEM.

Superintendence, inspection, etc.	\$2,926 20
Push-carts, including labor and teaming	34,004 81
<u>\$36,931 01</u>	

Recapitulation of Expenses, exclusive of Superintendence, Stable and Yard Expenses, Stock and Miscellaneous Accounts.

DISTRICTS.	Cost of Cleaning Streets.	Cost of Cleaning Gutters.	Cost of Dumps.	Cost of Snow.	Miscellaneous Work.	Cost of Crossings.	Patrolling in District.	Cost of Patrol System.	Total.
1.....	\$15,537 96	\$2,935 83	\$469 20	\$2,005 88	\$303 41	.....	.....	.....	\$21,252 28
2-3.....	12,686 89	3,753 03	532 85	1,724 60	179 51	.....	.....	.....	18,876 88
7.....	15,856 34	4,787 69	.....	2,149 91	372 14	.....	.....	.....	23,166 08
8, Day gang..	14,195 02	3,392 59	522 90	2,330 06	537 90	.....	.....	.....	20,978 47
8, Night gang,	40,507 37	.....	611 45	8,059 15	87 85	.....	.....	.....	49,265 82
9.....	5,514 27	4,564 87	443 47	1,165 71	39 60	.....	.....	.....	11,727 92
10.....	38,210 71	735 89	1,108 28	5,903 50	516 00 Brighton 554 24	.....	.....	.....	47,028 62
Cost of sweeping crossings, Patrolling in business dis- tricts.....	.....	.....	.....	.....	.....	\$3,707 57	.....	.....	3,707 57
Push-cart pa- trol system..	.....	.....	.....	.....	.....	.....	\$1,614 95	.....	1,614 95
	.....	.....	.....	.....	.....	.....	.....	\$36,931 01	36,931 01
Total.....	\$142,508 56	\$20,169 90	\$3,688 15	\$22,338 81	\$2,590 65	\$3,707 57	\$1,614 95	\$36,931 01	\$234,549 60

STABLE AND YARD EXPENSES.

*Including the Cost of the South End, West End, Roxbury,
South Boston and Charlestown Stables, as follows:*

Superintendence of stables	\$1,234 82
Labor, including the cost of feeders, hostlers, broom-makers, blacksmiths, carpenters, watch- men, yardmen, messenger, etc.	19,827 39
Hay, grain, etc., on hand and paid for	1,053 80
Cart and carriage repairs	4,253 01
Harness repairs	623 55
Horseshoeing	2,735 21
Sweeping machine repairs	2,943 99
Stable and shed repairs	1,203 00
Street-car tickets and ferry-passes	534 00
Tool repairs	125 37
Veterinary services and medicine	1,359 26
Total	<u>\$35,893 40</u>

STOCK ACCOUNT.

Broom stock purchased	\$5,543 12
Carts and carriages purchased	1,585 00
Harnesses and horse furnishings purchased	792 26
Horses purchased	2,070 00
Tools purchased	784 15
Sweeping machine	300 00
Patrol stock and maintenance of same	1,522 34
Total	<u>\$12,596 87</u>

MISCELLANEOUS.

Holidays	\$12,948 64
Scow (cost of disposal at sea of 28,813 loads of street dirt)	4,148 80
Sundries	2,610 44
Royalty on sweeping machines	450 00
Total	<u>\$20,157 88</u>

GENERAL RECAPITULATION OF EXPENSES.

Superintendence	\$9,325 63
Cleaning streets	142,508 56
Cleaning gutters	20,169 90
Maintaining dumps	3,688 15
Removal of snow and ice	23,338 81
Miscellaneous work	2,590 65
Carried forward,	<u>\$201,621 70</u>

STREET DEPARTMENT — STREET CLEANING DIVISION. 347

<i>Brought forward,</i>	\$201,621 70
Cleaning crossings	3,707 57
Paper patrol in business districts	1,614 95
Patrol system, push-carts	36,931 01
Stable and yard expenses	35,893 40
Stock account	12,596 87
Miscellaneous	20,157 88
Total	\$312,523 38

Note.—Of the above amount, the sum of \$2,530 was paid by other departments and divisions, on account of work done, etc., making the net expenses of this division, as shown in the financial statement, \$309,993.38.

INCOME.

Amount of the bills deposited with the City Collector during the financial year ending January 31, 1898, \$6,135.51.

Table showing the Cost per Mile of Cleaning the Streets in each District, exclusive of Supervision and other Expenses.

DISTRICTS.	Miles of Streets Cleaned.	Cost of Cleaning.	Pro Rata Cost of Dump.	Total Cost.	Cost per Mile.
1	1,040.01	\$15,537 96	\$394 63	\$15,932 59	\$15 31
2-3	1,014.60	12,686 89	411 19	13,098 08	12 90
7	841.23	15,856 34	.....	15,856 34	18 84
8 { Day gang.....	1,273.01	14,115 02	422 03	14,617 05	11 48
{ Night gang.....	5,048 74	40,507 37	611 45	41,118 82	8 14
9	644.24	5,514 27	242 61	5,756 88	8 93
10	3,398.80	38,210 71	1,087 32	39,298 03	11 56
	13,260.63	\$142,508 56	\$3,169 23	\$145,677 79	

Average cost per mile of cleaning streets in seven districts, exclusive of supervision, \$10.98.

Table showing the Cost per Mile of Cleaning the Streets in each District, including Supervision, Labor, Yard and Stable Expenses.

DISTRICTS.	Miles of Streets Cleaned.	Cost of Cleaning Streets.	62% of the Total Cost of Super- vision.	74% of the Total Cost of Yard and Stable Expenses.	Total Expenses.	Total Cost per Mile.
1	1,040.01	\$15,932 59	\$632 36	\$2,729 31	\$19,294 26	\$18 55
2-3	1,014.60	13,098 08	519 85	2,243 75	15,861 68	15 63
7	841.23	15,856 34	629 34	2,716 24	19,201 96	22 82
8 { Day gang..	1,273.01	14,617 05	580 14	2,503 95	17,701 14	13 90
{ Night gang	5,048.74	41,118 82	1,631 98	7,043 79	49,794 59	9 86
9	644.24	5,756 88	228 50	986 18	6,971 56	10 82
10	3,398.80	39,298 03	1,559 72	6,731 89	47,589 64	14 00
	13,260.63	\$145,677 79	\$5,781 89	\$24,955 11	\$176,414 83	

Average cost per mile of cleaning the streets in seven districts, including supervision, etc., \$13.30.

Table showing the Number of Loads of Street-dirt Removed.

DISTRICTS.	No. of Loads of Dirt Re- moved.	Cost per Load of cleaning streets and removing to dumps, in- cluding Fore- man's superin- tendence.
1.....	16,920	\$1 09
2-3.....	12,194	1 34
7.....	20,467	1 00
8 { Day gang.....	10,205	1 71
{ Night gang.....	24,627	1 63
9.....	7,041	1 42
10.....	22,512	1 72
Removed by paper patrol.....	113,966	Barrel loads.
Removed by push-cart, patrol system.....	1,060	
Removed by district push-carts.....	6,742	81,547
		6,538
Totals.....	121,768	88,085

Total number of cart loads removed	121,768
Total number of barrel loads removed	88,085

Twenty-eight thousand eight hundred and thirteen loads of the above dirt (or 24 per cent.) were delivered at the dumping scow, the towing of which to sea cost fifteen cents per load.

PUBLIC WASTE-BARRELS.

Total number of waste-barrels emptied.	29,064
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FORCE EMPLOYED.

Deputy Superintendent	1
Clerk	1
Messengers	4
Employees in the division, not including the above,	344
Entire force	350
Average force employed during the year	343

APPENDIX G.

REPORT OF THE DEPUTY SUPERINTENDENT OF
THE STREET WATERING DIVISION.

440 AND 441 TREMONT BUILDING,
BOSTON, February 1, 1898.

MR. BENJ. W. WELLS, *Superintendent of Streets* :

DEAR SIR: I herewith respectfully submit the annual report of the expenditures, income and operations of the Street Watering Division for the financial year ending January 31, 1898.

The open character of our winters was made disagreeably manifest during the past season. In January the dust became so unbearable for a time that on January 15 and 16 an effort was made to use the watering carts, but had to be discontinued, owing to the low temperature. There does not appear to be any way of overcoming the dust nuisance during cold, open weather, and attention is called to the matter for the purpose of assuring our citizens that the division appreciates this grievance; that it has tried to give relief, but experiments have resulted in worse conditions, — danger to horse travel.

The season was noted for unusual fall weather. In 1896 the carts were employed seventeen days during September and October, while in 1897, during these months, they worked thirty-five days. The slight increase in expense over the previous year is due to the dry weather in these two months.

The amount of work done, and the character of the service rendered were about the same as in 1896. The smallness of the appropriation prevented the increase in the force of carts as urged in the last report, but during the warm weather two carts were added in West Roxbury, one cart in Roxbury, and one cart in the Back Bay in answer to the imperative needs of those sections.

In our last report attention was directed to the gradual substitution of salt water for fresh water, and the matter urges itself again because of the fact that we were obliged to pay for the water used last year and the year before. As salt-water mains are about to be constructed for fire purposes I would strongly advise that some consideration be given to the use for street-watering purposes. The cost of water for 1896 was \$35,200 and for 1897, \$41,730.40, making a total of \$76,930.40. A proportion of this expense could be saved by the use of salt water.

With your approval a letter containing the following questions was sent to the mayors of the fifty largest cities of this country

with a view of securing information of the methods pursued in other cities, and for the benefit derived from a comparison with the work accomplished by this division :

“ 1. How is the cost of street-watering borne in your city — by assessment on the estates benefited, or from the general tax levy? If by assessment, is the service compulsory upon the abutter?

“ 2. How is your work done? Do you hire the carts and do the watering under the supervision of the city, or is it done by contract?

“ 3. How much, if any, street-watering is done by the street railway companies free of cost to the city? If the street railway companies do not operate electric watering cars, do they contribute anything to the expense of watering on streets through which they run their cars? ”

In many of the cities heard from very little is attempted in the line of street-watering, and the voluntary subscription method, similar to the manner in which our paved streets have been watered, obtains in a great number of them, but it is generally unsatisfactory. Some are doing the watering by the assessment plan, and in a number the street railway companies are obliged to contribute to the expense of watering or render some actual watering service.

No city in the country does as much street-watering as the city of Boston, and there is every reason, from comparison, for satisfaction at the results the division has accomplished in this line of the public service.

In my last annual report I recommended that the division undertake the watering of paved streets, and I wish to again press the matter. This service can be rendered better by the city than under the present arrangements of the subscription method.

I wish also to request that the effort to have the Boston Elevated Railway Company contribute something to the watering of its tracks be continued.

The following sums have been expended for street-watering during the past seven (7) years :

1891	.	.	\$104,263 62	1895	.	.	\$76,424 70
1892	.	.	94,507 80	1896	.	.	71,211 81
1893	.	.	99,430 16	1897	.	.	78,736 72
1894	.	.	87,169 08				

NOTE. — During the year 1897 the sum of \$76,930.40 was expended for the water used in 1896 and 1897. This expense was not paid in previous years, and for the purpose of comparison it has been omitted from the expenditures of 1897 given above.

The income during the last year was \$482.10.

Respectfully submitted,

THOMAS J. FINNERAN,

Deputy Superintendent Street Watering Division.

Objects of Expenditures.

DISTRICTS.	Hired Carts.	Labor.	Water Posts.	Bicycles and Repairs.	Horse-hire.	Repairs of Carts.	Board of Horses.	General Supplies.	Water.	Totals.
South Boston..	\$4,012 50	\$812 00	\$121 62	.....	.....	.....	.....	.....	.....	\$4,946 12
East Boston...	4,340 00	432 25	147 68	59 48	.....	.....	.....	.....	.....	4,979 41
Charlestown...	3,802 50	423 50	86 92	.....	.....	.....	.....	.....	.....	4,312 92
Brighton	7,067 50	435 75	191 11	59 48	.....	.....	.....	.....	.....	7,753 84
West Roxbury.	10,159 50	826 00	291 02	118 96	.....	.....	.....	.....	.....	11,395 48
Dorchester....	9,717 50	862 75	360 51	118 96	.....	.....	.....	.....	.....	11,059 72
Roxbury	10,425 00	857 50	295 36	118 96	.....	.....	.....	.....	.....	11,696 82
City Proper ...	13,267 25	5,589 52	230 21	59 51	200 00	1,346 52	612 30	1,287 10	76,930 40	99,522 81
Totals.....	\$62,791 75	\$10,239 27	\$1,724 43	\$535 35	\$200 00	\$1,346 52	\$612 30	\$1,287 10	\$76,930 40	\$155,667 12

FINANCIAL STATEMENT.

Amount of Appropriation	\$70,000 00
Transferred from Sewer Division . .	7,137 29
Transferred from Central Office . .	1,599 43
Transferred from Surplus Revenue . .	76,930 40

Total amount of appropriation . . . \$155,667 12

Total amount of expenditures . . . \$155,667 12

INCOME.

The following sums were charged for street-watering, and bills for the same deposited with the City Collector, during the financial year ending January 31, 1898:

Board of Police	\$136 85
Homœopathic Hospital	105 00
Louisburg square	100 00
Fairfax and Beaumont streets	75 00
Marcella-street Home	28 00
State House Grounds	25 00
Boston Dispensary	12 25

Total \$482 10

The division rendered service in front of 127 school-houses, and the bill for the same is \$3,466.54, and is unpaid by the School Committee.

The Fire Department, requiring special service in front of the engine-houses, notified this division that the department would do its own watering, and, therefore, no charge has been entered against it for watering.

Summary of Day Work paid for by the City.

No.	DISTRICT.	No. Carts.	No. Miles Covered.	Average per Cart.
1....	South Boston.....	9	23.05	2 56
2....	East Boston	8	21.63	2.70
3....	Charlestown.....	7	15.00	2 14
4....	Brighton.....	13	32.65	2.51
5....	West Roxbury	20	61.76	3.08
6....	Dorchester	19	63.31	3.31
7....	Roxbury.	20	54.19	2.70
8....	Back Bay.....	11	15.93	1.45
9....	Beacon Hill	2	4.25	2.12
10....	South End	7	14.36	2.05
Totals.....		116	306.13	2.64

STREET DEPARTMENT — STREET WATERING DIVISION. 353

The above summary shows that 116 carts watered 306.13 miles of macadam streets this year. This is an increase of four in the number of carts, and an increase of about three-quarters of a mile in streets watered. The cost of this watering, exclusive of supervision and water, was \$62,791.75 against \$56,333.25 the year previous. The additional expense is attributable to the unusual weather conditions of the fall months referred to in the beginning of the report.

The surface watered will be materially increased during the coming season by the acquisition of Blue Hill, Huntington and Commonwealth-avenue boulevards, which are now complete for travel.

Work done by Contractors at the Expense of the Abutters.

DISTRICTS.	Contractors.	Carts.	Miles.
City Proper	Daniel Clark	4	4.45
City Proper	Potter Bros.....	5	8.75
City Proper	Proctor Bros. & Co.	5	7.25
City Proper	O. Nute & Son.....	1	2.73
East Boston.....	J. J. Fitzpatrick...	1	2.00
Charlestown	W. H. Quigley	1	2.00
Roxbury and South Boston..	A. A. Hall & Co. ..	3	7.78
Roxbury	Gilligan Bros.	1	1.25
Totals .....	.....	21	36.21

The above table shows the work done by contractors for the abutters on what is called the subscription plan. The work is exactly the same as the amount rendered the year previous. Whether the watering is done rests with the abutter, and it can be readily appreciated that many elect to go without water when it is understood that there are 93.17 miles of streets, paved in one way or another, and but 36.21 miles of them are watered. The fact that the city takes care of the macadam streets may have been the reason why many declined to provide for the watering of the paved streets on which they happened to live; but it is certain that the subscription plan is unsatisfactory for the greater reason that some abutters have paid for the service, while their neighbors, declining, have had a benefit at their expense. The experience of other cities is in the same direction.

Work done by the Contractors Free of Cost to the City.

NAME.	Carts.	Miles.
Daniel Clark	$\frac{1}{2}$	0.86
Potter Bros.	$\frac{3}{4}$	1.12
Proctor Bros.	1	1.75
O. Nute & Son.	$\frac{1}{8}$	0.21
A. A. Hall & Co.	$\frac{3}{4}$	1.09
Gilligan Bros.	$\frac{1}{4}$	0.54
Totals	$3\frac{3}{8}$	5.57

The above table shows the amount of watering done by the contractors free of cost to the city. This is in return for the subscription privileges extended to them. It represents a saving of about \$2,000 to the division.

Distribution of Carts, showing Entire Amount of Work done.

No.	DISTRICT.	Hired Carts.	Contractors' Carts.	Total.	Miles.
1.....	South Boston.....	9	1	10	25.98
2.....	East Boston	8	1	9	23.63
3.....	Charlestown.....	7	1	8	17.00
4.....	Brighton	13	.....	13	32.65
5.....	West Roxbury.....	20	.....	20	61.76
6.....	Dorchester	19	.....	19	63.31
7.....	Roxbury	20	3	23	60.24
8,9,10	City Proper	20	15	35	57.72
	Free watering .....	.....	$3\frac{3}{8}$	$3\frac{3}{8}$	5.57
	Totals.....	116	$24\frac{3}{8}$	$140\frac{3}{8}$	347.86

Location by Districts.

DISTRICTS.	Water-Posts.		Electric Hydrants.
	1891.	1897.	
South Boston.....	23	28	5
East Boston	16	34	
Charlestown	19	20	
Brighton	25	44	
West Roxbury.....	50	67	
Dorchester	61	83	
Roxbury.....	53	68	
City Proper.....	24	53	
Totals	271	397	5

NOTE — An increase of 126 stand-pipes since 1891.

The division is indebted to Mr. J. W. Smith, the Local Forecast Official, for daily weather reports.

Our acknowledgments are also due to the Water Department for its assistance in the repair of stand-pipes.

APPENDIX H.

CITY OF BOSTON, ENGINEERING DEPARTMENT,
50 CITY HALL, January 30, 1898.

MR. BENJAMIN W. WELLS, *Superintendent of Streets*:

SIR: I herewith submit the following report of the work done under my direction for the Street Department during the year 1897:

The work done for the Street Department covers the same ground as in previous years, namely, the supervision of the construction of assessment streets, boulevards and street paving.

The repairs on the asphalt pavements upon which the maintenance guaranty has expired have been supervised in accordance with your directions, and a table is annexed giving repairs and cost thereof in detail; a table has also been prepared showing the details of all asphalt pavement in the city and a copy is enclosed.

On Blue Hill avenue, the work of construction has been completed to Walk Hill street; from that point to Mattapan, the construction awaits the decision of the courts as to the method of abolishing the grade crossing on the New England Railroad.

On Columbus-avenue extension, the section from West Walnut Park to Ritchie street has been built during the year. The work of constructing the new Stony brook channel has delayed the completion of the remainder of the street, but it is expected that the entire avenue will be completed in 1898.

On Commonwealth avenue, a certain amount of work was done near Chestnut Hill avenue, late in the season.

Columbia road was laid out during the year, and work promptly commenced upon it. The work done consists of a large amount of earth and rock excavation, between Blue Hill avenue and the New England Railroad.

The table showing lengths and areas of paving on accepted streets has been brought up to February 1, 1898.

Street paving has been supervised in all cases where requested. All paving laid on the before-mentioned avenues is included in the quantities given. All granite paving laid on concrete base has been laid with pitch and pebble joints.

Block stone pavement on a concrete base, laid with pitch and pebble joints, 20,287 square yards.

Block stone pavement on a gravel base, laid with pitch and pebble joints, 17,234 square yards.

Block stone pavement on a gravel base, laid with gravel joints, 67,625 square yards, not including gutter paving.

Trinidad sheet asphalt, with a binder course of asphaltic cement concrete, on an American cement concrete base, 9,715.1 square yards, at an average cost of about \$3 per square yard.

Siilian rock asphalt on an American cement concrete base or a Portland cement concrete base, 10,032.8 square yards, at an average cost of about \$3 per square yard where on American cement concrete, and about \$3.12½ per square yard where on Portland cement concrete.

Seyssel rock asphalt, on an American cement concrete base or a Portland cement concrete base, 1,801 square yards, at a cost of \$3 per square yard.

Asphaltina, on an American Portland cement concrete base, 1,639.5 square yards, at a cost of \$2.75 per square yard.

The costs per square yard given above do not include the preparation of the roadbed.

Edgestone set, 88,649 linear feet; gutter paving laid, 33,615 square yards; brick sidewalks laid, 42,962 square yards.

Crushed stone sidewalks constructed, 35,247 square yards; flagging crosswalks laid, 7,777 square yards.

All asphalt paving is laid with a maintenance guaranty for five years.

A List of Streets Paved with Sheet Asphalt, and having a Maintenance Guaranty February 1, 1898.

TRINIDAD ASPHALT.

City Proper.

NAME.	Limits.	Base.	Length feet.	Length miles.	Area.	Guaranty expires.
Arch st.....	Franklin st. to Milk st.....	Concrete	426	.081	1,267	June 1, 1898
Barton ct.....	Brighton st. to Barton st.....	Cobble	134	.025	186	May 16, 1899
Batterymarch st.....	Milk st. toward Kilby st.....	Concrete	150	.028	466	Sept. 28, 1901
Beacon st.....	68 ft. west of Gloucester st. to Mass. ave.....	Concrete	1,019	.193	5,391	Sept. 27, 1898
Bond st.....	Hanson st. to Milford st.....	Concrete	192	.036	426	July 1, 1900
Boylston st.....	Easterly side Berkeley st. across Clarendon, Beacon st. to Pinckney st.....	Concrete	656	.124	3,869	Oct. 4, 1902
Brimmer st.....	Green st. across Poplar st.....	Concrete	1,087	.206	3,300	Aug. 31, 1900
Chambers st.....	Brighton st. to Charles st.....	Cobble	460	.087	1,061	May 16, 1899
Chambers st.....	Green st. to Charles st.....	Cob. & Conc.....	272	.052	604	July 1, 1900
Charter st.....	Hanover st. across Unity st.....	Cobble	318	.060	636	May 16, 1899
Columbus ave.....	Mass. ave. to 301 ft. south of Camden st.....	Concrete	903	.171	5,418	Nov. 7, 1901
Cooper st.....	Endicott st. to Charlestown st.....	Concrete	205	.039	604	Sept. 27, 1902
Corning st.....	Washington st. to Shawmut ave.....	Concrete	338	.064	734	May 25, 1901
Court sq.....	Easterly side.....	Concrete	333	.063	942	June 14, 1899
Dartmouth st.....	Boylston st. to Newbury st.....	Concrete	266	.050	2,058	Sept. 8, 1899
Edinboro' st.....	Essex st. to Beach st.....	Concrete	470	.089	924	Aug. 14, 1900
Harrison ave.....	E. Newton st. to E. Springfield st.....	Concrete	928	.176	2,681	Aug. 14, 1900
Harrison ave.....	E. Springfield st. to Roxbury line.....	Concrete .....	..	..	130	Aug. 14, 1900
Laconia st.....	Washington st. to Harrison ave.....	Concrete	330	.063	727	June 18, 1901
La Grange st.....	Tremont st. toward Washington st.....	Concrete	181	.034	355	Oct. 28, 1902
Lincoln pl.....	Worcester st. to W. Springfield st.....	Concrete	217	.041	313	Aug. 17, 1902
North Margin st.....	Stillman st. to Thacher st.....	Concrete	515	.098	1,154	Sept. 10, 1900
Oxford st.....	Beach st. to Essex st.....	Macadam	430	.081	735	Nov. 1, 1899
Parmenter st.....	Hanover st. to Salem st.....	Concrete	279	.053	764	Sept. 11, 1898

Pinckney st.....	Charles st. across Brimmer st.....	Concrete	271	.051	723	Aug. 31, 1900
Pine st.....	Washington st. to Harrison ave.....	Concrete	419	.079	597	June 18, 1901
Spring st.....	Poplar st. to Leverett st.....	Cobble.....	447	.085	908	May 20, 1900
Stevens st.....	Lincoln pl. toward Shawmut ave.....	Concrete	16	.003	22	Aug. 17, 1902
Tileston st.....	155 ft. west of Hanover st. to Salem st.....	Concrete	417	.079	470	Aug. 14, 1900
Unity st.....	Charter st. to Tileston st.....	Concrete	330	.063	500	Oct. 6, 1902
Water st.....	Liberty sq. to Broad st.....	Concrete	252	.048	682	Oct. 10, 1901
Wiget st.....	Salem st. to N. Margin st.....	Concrete.....	259	.049	240	Sept. 25, 1902
Totals.....	.....	.....	12,520	2.371	38,887	

Charlestown.

Bunker Hill st.....	At Tufts st.....	Concrete .....	..	..	150	Nov. 3, 1902
Corey st.....	Moulton st., 124 ft. toward Medford st.....	Concrete	124	.024	276	Nov. 3, 1902
Moulton st.....	Easterly side Corey st. to Vine st.....	Concrete	81	.015	243	Nov. 3, 1902
Moulton st.....	Vine st. to Bunker Hill st.....	Concrete	130	.025	390	Nov. 3, 1902
Rutherford ave.....	Devens st. toward Chapman st.....	Concrete	128	.024	284	Nov. 5, 1902
Tufts st.....	Bunker Hill st., northerly.....	Concrete	141	.027	415	Nov. 3, 1902
Vine st.....	Bunker Hill st. across Moulton st.....	Concrete	165	.031	670	Nov. 3, 1902
Totals.....	.....	.....	769	.146	2,428	

Roxbury.

Cabot st.....	East side Vernon st. to Linden Park st.....	Concrete	484	.091	1,390	Aug. 30, 1902
Columbus ave.....	301 ft. south of Camden st. across Terry st.	Concrete	2,640	.500	1,584	Nov. 7, 1901
Totals.....	.....	.....	3,124	.591	17,230	

SICILIAN ROCK ASPHALT.
City Proper.

NAME.	Limits.	Base.	Length feet.	Length miles.	Area.	Guaranty expires.
Acton st.	Washington st. to Bradford st.	Concrete	259	.049	352	Nov. 3, 1901
Albany st.	Easterly side of Stoughton st. across E. Concord st.	Concrete	285	.054	1,710	Nov. 8, 1902
Ash st.	Oak st. across Nassau st.	Cobble	220	.041	391	Oct. 26, 1899
Avery st.	Washington st. to Mason st.	Concrete	360	.068	275	Oct. 18, 1902
Barton st.	Leverett st. to Milton st.	Concrete	427	.081	723	Aug. 14, 1900
Bradford st.	Waltham st. to Shawmut ave.	Concrete	600	.114	1,270	Sept. 11, 1902
Charles st.	In front of Eye and Ear Infirmary	Concrete	191	.036	225	Oct. 8, 1899
Cobb st.	Washington st. to Shawmut ave.	Concrete	347	.066	1,041	Sept. 16, 1902
Dwight st.	Shawmut ave. to Tremont st.	Concrete	716	.135	2,075	Aug. 8, 1898
Exeter pl.	Chauncy st. to Harrison ave.	Concrete	170	.032	387	Oct. 20, 1902
Fabin st.	Newland st. to Ivanhoe st.	Concrete	421	.080	615	Sept. 10, 1900
Fay st.	Dover st. to Harrison ave.	Cobble	318	.060	560	July 26, 1899
Hamburg st.	Mystic st. to Harrison ave.	Concrete	383	.073	597	Oct. 1, 1901
Hanover st.	Tileston st. across Charter st.	Concrete	315	.060	934	May 14, 1901
Huntington ave.	B. & A. R.R. bridge to Cumberland st.	Concrete	1,591	.301	8,840	Oct. 12, 1901
Mason st.	213 ft. south of West st. for a distance of 231 ft., southerly	Concrete				
Massachusetts ave.	Washington st. to Albany st., southerly roadway	Block	231	.044	480	May 25, 1899
Mayo st.	Castle st. to Cobb st.	Concrete	662	.125	4,151	Sept. 17, 1899
Meander st.	E. Dedham st. to Malden st.	Concrete	251	.048	418	Sept. 11, 1902
Mystic st.	Malden st. to E. Dedham st.	Concrete	307	.058	437	Sept. 3, 1901
Mystic st.	E. Dedham st. to E. Canton st.	Concrete	204	.039	226	Oct. 20, 1901
Mystic st.	E. Canton st. to E. Brookline st.	Concrete	215	.041	335	Oct. 20, 1901
Mystic st.	E. Canton st. to E. Brookline st.	Concrete	216	.041	337	Oct. 20, 1901
North Margin st.	Thacher st. toward Endicott st.	Concrete	205	.039	518	Nov. 19, 1902

Norwich st.....	Mystic st. to Meander st.....	Concrete	221	.042	339	Sept. 24, 1901
Ohio st.....	Washington st. to Shawmut ave.....	Concrete	343	.065	277	July 30, 1901
Pemberton sq.....	In front of Suffolk County Court House.....	Concrete	323	.061	1,365	May 8, 1899
Prince st.....	Hanover st. to Bennet ave.....	Concrete	293	.055	654	July 1, 1900
Taylor st.....	Dwight st. to Milford st.....	Concrete	196	.037	274	May 29, 1901
Whitmore st.....	Kneeland st. to Harvard st.....	Concrete	249	.047	445	Aug. 14, 1900
Totals.....	.....	.....	10,519	1.992	30,251	

Charlestown.

Warren st.....	Winthrop st. to Soley st.....	Concrete	127	.024	365	Sept. 20, 1900
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South Boston.

Athens st.....	W. Second st. to A st.....	Concrete	617	.117	916	Oct. 9, 1900
East Broadway.....	In front of Lincoln School.....	Concrete	180	.034	1,060	Oct. 7, 1902
K st.....	E. Sixth st. to E. Eighth st.....	Concrete	566	.107	1,083	May 20, 1901
West Broadway.....	Gardner pl. 150 ft. easterly.....	Concrete	150	.028	648	Oct. 3, 1898
West Broadway.....	N. Y. & N. E. R.R. bridge to 170 ft. west of F st. (4-ft. gutters).....	Concrete .....	..	..	1,487	Oct. 5, 1902
West Broadway.....	150 ft. west of F st. to 267 ft. east of F st..	Concrete	448	.085	1,544	Nov. 28, 1902
Totals.....	.....	.....	1,961	.371	6,678	

Roxbury.

Columbus ave.....	Terry st. to within 61 ft. of station.....	Concrete	884	.168	5,304	Oct. 23, 1901
Huntington ave.....	Easterly side of Cumberland st. to Mass. ave.,	Concrete	717	.141	4,150	Oct. 12, 1901
Huntington ave.....	Massachusetts ave. to Gainsborough st.....	Concrete	587	.111	3,372	Oct. 12, 1901
Totals.....	.....	.....	2,218	.420	12,826	

SEYSEL ASPHALT.

NAME.	Limits.	Base.	Length feet.	Length miles.	Area.	Guaranty expires.
Paul st.	Emerald st. to Village st.	Concrete	133	.025	236	Oct. 23, 1902
Paul st.	Village st. to Tremont st.	Concrete	276	.052	456	Oct. 23, 1902
Pelham st.	Washington st. to Shawmut ave.	Concrete	320	.061	693	Oct. 12, 1902
Waterford st.	Washington st. to Shawmut ave.	Concrete	316	.060	544	Nov. 13, 1902
Totals. ....	.....	.....	1,045	.198	1,929	

ASPHALTINA.

Massachusetts ave.	Columbus ave. to Tremont st. (northerly roadway)	Concrete	267	.050	1,622	Oct. 11, 1902
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SUMMARY.

Trinidad asphalt 16,413 feet, or 3.108 miles, or 58,545 square yards.
 Sicilian rock asphalt 14,825 feet, or 2.807 miles, or 50,120 square yards.
 Seyssel asphalt 1,045 feet, or 0.198 miles, or 1,929 square yards.
 Asphaltina 267 feet, or 0.050 miles, or 1,622 square yards.

Total sheet asphalt under maintenance guaranty February 1, 1893. 32,550 feet, or 6.163 miles, or 112,216 square yards.

Cost of Asphalt Patching, 1897.

STREET.	Year laid.	Base.	Length miles.	Total yards in street.	Yards resurfaced.	Cost of patching.	Cost per square yard of surface.
Court st., west side.....	1881	....	.064	950	17.99	\$44 97	\$.047
Doane st.....	1881	....	.059	624	12.93	32 32	.052
Kilby st.....	1881	....	.123	2,628	121.69	304 22	.115
Batterymarch st., 110 ft. from Kilby st.....	1881	....	.21	391	..	..	..
Congress st., intersection.....	1883	....	..	43	..	..	..
North Bennet st.....	1883	....	.105	920	45.38	113 46	.123
Albany st., Concord st. to Springfield st.....	1884	....	.085	2,700	44.87	112 18	.042
Endicott st.....	1884	Cobble....	.059	1,005	201.13	502 83	.500
Ash st.....	1887	Concrete..	.044	409	9.23	23 08	.056
Bennett st.....	1887	....	.034	300	40.01	100 02	.333
Central st.....	1887	....	.059	869	14.42	36 05	.041
Cooper st., North Margin st. to Endicott st.....	1887	....	.031	556	31.04	77 60	.070
Cooper st., Endicott st. to Charlestown st.....	1887	....	.038	560	..	..	..
Exchange pl.....	1887	....	.046	678	18 56	46 40	.068
Tileston st., Hanover st. to Unity st.....	1887	Cobble....	.048	350	22 56	56 41	.161
Wiggin st.....	1887	....	.020	119	4.74	11 83	.099
Poplar st., Spring st. to Charles st.....	1887	Cobble....	.109	1,192	60.55	151 37	.127
West Sixth st. toward D st.....	1887	....	.017	343	5.41	13 53	.039
Brattle sq.....	1888	....	.053	670	25.86	64 66	.097
Water st., Congress st. across Batterymarch st.....	1889	....	.062	975	68.17	170 43	.175
D st., Fifth st. to Gold st.....	1889	....	.024	448	4.68	11 70	.026
Beacon st., Charles st. across Arlington st.....	1891	Concrete..	.165	3,800	59.32	134 21	.035
Hollis st.....	1891	Block....	.052	521	6.02	15 05	.029
Court st., Court sq. to Washington st.....	1891	....	.044	642	4.33	10 82	.017
Hudson st.....	1891	Concrete..	.266	3,938	50.00	125 00	.032
<i>Carried forward.</i>.....	.....	.....	1.628	25,631	868.89	\$2,158 14	\$2.284

Cost of Asphalt Patching, 1897. — *Continued.*

STREET.	Year laid.	Base.	Length miles.	Total yards in street.	Yards resurfaced.	Cost of patching.	Cost per square yard of surface.
<i>Brought forward.</i>							
Moon st.....	.....	.....	1.028	25,031	868.89	\$2,158 14	\$2.284
Sun Court st.....	1891	Cobble ..	.034	384	2.30	5 75	.015
Warrenton st.....	1891	Cobble ..	.029	218	6.65	16 62	.075
Austin st.....	1891	Concrete ..	.216	2,497	31.50	78 76	.032
Rogers st., Charlestown.....	1891	.....	.027	421	..	..	..
Rogers st., South Boston.....	1891	Cobble ..	.068	480	..	..	..
Cabot st., Tremont st.....	1891	Concrete ..	.210	3,052	25.57	63 93	.018
Columbus ave., B. & A. R. R. to Massachusetts ave.,	.....	Concrete ..	.663	15,578	1,211.10	2,904 00	.186
Harrison ave.....	.....	Concrete ..	.144	995	52.19	130 47	.131
Totals.....	.....	.....	3.019	49,856	2,198.20	\$5,357 67	\$2.741
Average cost.....	.....	.....	.....	.....	.....	.....	.107

Prices paid for surfacing patches, \$2 per yard.

Prices paid for entire removal, \$2.50 per yard.

In addition to the above, \$92.60 was paid for sundry small patches on seven asphalt streets, the guaranty upon which expired in 1897; on thirteen similar streets no patching was done.

Albany street, Stoughton street to East Concord street, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt, on a 6-inch Portland cement concrete base, by the Boston Asphalt Company. The old pavement was removed, roadway excavated, granite edgestones reset, block paving relaid, brick sidewalks and flagging crosswalks relaid by H. Gore & Co. The former pavement was granite blocks on gravel bed. Three square granite catch-basin frames were removed and cast-iron D frames substituted.

Avery street, Washington street to Mason street, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt, on a 6-inch Portland cement concrete base, by the Boston Asphalt Company. The old pavement was removed, roadway excavated, edgestones reset, brick sidewalks and flagging crosswalks relaid by H. Gore & Co. The former pavement was granite blocks on gravel bed. From Washington street across Haymarket place the gutters (10 inches in width) were paved with granite blocks on a concrete base.

Boylston street, east of Berkeley street to west of Clarendon street, including tracks of West End Street Railway Company, was paved with 2 inches of Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder, on a 6-inch American cement concrete base by the Barber Asphalt Paving Company. The old pavement was removed, roadway excavated, edgestones reset, brick sidewalks and flagging crosswalks relaid by T. M. Gill. The West End Street Railway Company, by agreement, paid for the portion within its tracks. Former pavement was macadam with granite block gutters.

Bradford street, Waltham street to Shawmut avenue, was paved with $2\frac{1}{2}$ inches Sicilian rock asphalt, on a 6-inch American cement concrete base by the Boston Asphalt Company. The roadway was sub-graded, edgestones reset, brick sidewalks and flagging crosswalks relaid by the Street Department. Former pavement was macadam, with cobble-stone gutters. Four square granite catch-basin frames were removed and cast-iron D frames substituted.

Bulfinch street, Bowdoin square to Bulfinch place, was paved with large granite blocks on a 6-inch American cement concrete base, with pitch and pebble joints. The old pavement was barred out and loaded, roadway excavated and loaded, and concrete base laid by the Metropolitan Construction Company. Roadway paving was laid, edgestones reset, brick sidewalks and flagging crosswalks relaid by H. Gore & Co. The Street Department furnished teams for carting away old blocks and surplus material. Former pavement was granite blocks on gravel bed.

Cabot street, Vernon street to Linden Park street, was paved with 2 inches of Trinidad lake asphalt, with $1\frac{1}{2}$ inches of bituminous concrete binder on a 6-inch American cement concrete base by the Barber Asphalt Paving Company. The roadway was sub-graded by the Paving Division. Edgestones were reset, brick sidewalks and flagging crosswalks relaid by Barnes & Ruffin. Former pavement was macadam with cobble-stone gutters. One

new catch-basin was built and one square granite catch-basin frame removed and a cast-iron D frame substituted.

Charles street, Cambridge street to Leverett street, including the tracks of the West End Street Railway Company, was paved with standard granite block, on a gravel bed with pitch and pebble joints, by Dennis J. Kiley. The old pavement was removed and roadway excavated by the Paving Division. Edgestones were reset, brick sidewalk and flagging crosswalks relaid by Dennis J. Kiley. The West End Street Railway Company, by agreement, paid for the portion between its tracks. Former pavement was old granite blocks on gravel bed. One new catch-basin was built and five square granite catch-basin frames were removed and cast-iron D frames substituted. Owing to sewer construction the easterly roadway between Allen and Poplar streets was not paved.

Cobb street, Shawmut avenue to Washington street, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt on a 6-inch American cement concrete base by the Boston Asphalt Company. The roadway was excavated, edgestones reset, brick sidewalks and flagging crosswalks relaid by the Paving Division. Former pavement was macadam with block gutters. One new catch-basin was built and one square granite catch-basin frame removed and a cast-iron D frame substituted.

Congress street, State street to Exchange place, including the tracks of the West End Street Railway Company, was paved with Philadelphia special blocks on a 6-inch American cement concrete base with pitch joints. The old pavement was barred out and loaded, roadway excavated and loaded, concrete base laid by the Metropolitan Construction Company. The pavement was laid, edgestones reset, brick sidewalks and flagging crosswalks relaid by H. Gore & Co. The West End Street Railway Company, by agreement, paid for the portion within its tracks. Former pavement was old "Boston" blocks on gravel bed. One square granite catch-basin frame was removed and a cast-iron D frame substituted.

Cooper street, Endicott street to Charlestown street, was paved with 2 inches of Trinidad lake asphalt, with bituminous concrete binder, on existing concrete base, by the Barber Asphalt Paving Company. Former pavement was Trinidad lake asphalt, originally laid in 1887.

Covington street, between Thomas park and East Eighth street, is about 264 feet long and 43 feet wide, with a difference in level between the above-named limits of 62.8 feet; from East Eighth street it rises at the rate of about 17 feet per 100 for 160 feet; from this point, seven flights of artificial stone steps and platforms, with iron fences and hand rails, 104 feet long and rising 37.8 feet, were built by the W. A. Murtfeldt Company, at a cost of \$4,085. These steps were built in the centre of the street, 12 feet wide, with side flights and platforms (three in number at present), giving access to abutting property. The above price includes the cost of all necessary excavation and

grading; also surfacing, loaming and seeding the slopes between the steps and abutting property. A retaining wall was built along the estate of William S. Milligan by T. F. Broderick, at a cost of \$1,087.35. The portion of the street, 160 feet from East Eighth street, is to be constructed with a macadam roadway, granite block gutters, granite edgestones and brick sidewalks. The work of constructing this portion of the street was not begun at the end of the working season.

Dudley street, Brook avenue to Upham's Corner, including the tracks of the West End Street Railway Company, was paved with standard granite blocks on gravel bed. The roadway was sub-graded by the Paving Division. Between Brook avenue and the New England Railroad crossing the roadway was paved, edgestones reset, brick sidewalks and flagging crosswalks relaid by T. M. Gill; between the New England Railroad crossing and Upham's Corner, similar work was done by Doherty & Connors. Former pavement was macadam, with block and cobble-stone gutters. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

East Broadway, in front of the Lincoln School, including the tracks of the West End Street Railway Company, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt, on a 6-inch American cement concrete base, by the Boston Asphalt Company. The old pavement was barred out and loaded, roadway excavated and loaded, edgestones reset and brick sidewalk relaid by H. Gore & Co. The Street Department furnished teams for carting away old blocks and surplus excavation. Former pavement was granite blocks on a gravel bed. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

Exeter place, Chauncy street to Harrison avenue, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt, on a 6-inch American cement concrete base, by the Boston Asphalt Company. The roadway was sub-graded, edgestones reset, brick sidewalks and flagging crosswalks relaid by H. Gore & Co. Former pavement was macadam, with cobble-stone gutters.

La Grange street, Tremont street to Police Station No. 4, was paved with 2 inches of Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder, on a 6-inch American cement concrete base, by the Barber Asphalt Paving Company. The old pavement was removed, roadway excavated, edgestones reset, brick sidewalks relaid by the Paving Division. Former pavement was granite blocks on a gravel bed.

Lincoln place, Worcester street to Springfield street, was paved with 2 inches of Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder, on a 6-inch American cement concrete base, by the Barber Asphalt Paving Company. The roadway was sub-graded, edgestones reset, brick sidewalks and flagging crosswalks relaid by the Paving Division. Former pavement was macadam, with block gutters. Three new catch-basins were built, one on each of the following streets: Worcester, Springfield and Stevens.

Main street, Miller street across Mead street, including the tracks of the West End Street Railway Company, was paved with standard granite blocks, on a gravel bed, by John Turner & Co. The old pavement was removed, roadway excavated, edgestones reset, brick sidewalks and flagging crosswalks relaid by John Turner & Co. Former pavement was old granite blocks on gravel bed. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

Massachusetts avenue (easterly side), from Tremont street to Columbus avenue, was paved with 2 inches of so-called "asphaltina" (a patented coal tar production), with $1\frac{1}{2}$ inches coal tar concrete binder, on a 6-inch American Portland (Saylor) cement concrete base, by the Boston Paving Company. The old pavement was removed and roadway excavated by the Paving Division. Former pavement was Hastings asphalt blocks on a gravel bed, laid in 1891.

Mayo street, Castle street to Cobb street, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt, on a 6-inch American cement concrete base, by the Boston Asphalt Company. The roadway was excavated, edgestones reset, brick sidewalks and flagging crosswalks relaid by the Paving Division. Former pavement was macadam, with block stone gutters.

North street, Merchants' row to Union street, was paved with standard granite blocks, on a 6-inch American cement concrete base, with pitch and pebble joints. The old pavement was barred out and loaded, roadway excavated and loaded, concrete base laid by the Metropolitan Construction Company. The roadway was paved, edgestones reset, brick sidewalks and flagging crosswalks laid by H. Gore & Co. The Street Department furnished teams for carting away the old paving blocks and surplus excavation. Former pavement was old granite blocks on a gravel bed.

North Margin street, Thacher street towards Endicott street, was paved with $2\frac{1}{2}$ inches of Sicilian rock asphalt on a 6-inch Portland cement concrete base, by the Boston Asphalt Company. The old pavement was barred out and loaded, roadway excavated and loaded, edgestones set, brick sidewalks and flagging crosswalks laid by P. H. Bradley & Co. The Street Department furnished teams for carting away the old blocks and surplus excavation. Former pavement was old granite blocks on a gravel bed.

Paul street, Tremont street to Emerald street, was paved with $2\frac{1}{2}$ inches of Seyssel natural rock asphalt on a 6-inch American cement concrete base, by Jones & Meehan. The old pavement was barred out and loaded, roadway excavated and loaded, edgestones reset, brick sidewalk and flagging crosswalk laid by Jones & Meehan. Former pavement was macadam and paving bricks. The Street Department furnished teams for carting away old pavement and surplus excavation.

Pelham street, Washington street to Shawmut avenue, was paved with $2\frac{1}{2}$ inches of Seyssel natural rock asphalt on a 6-inch

American cement concrete base by Jones & Meehan. The roadway was excavated and loaded, edgestones reset, brick sidewalks and flagging crosswalks laid by Jones & Meehan. Former pavement was macadam with block gutters. The Street Department furnished teams for carting away surplus excavation.

Rutherford avenue, near Devens street, in front of Episcopal church, was paved with 2 inches Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder on a 6-inch American cement concrete base by the Barber Asphalt Paving Company. The old pavement was removed and roadway excavated by the Paving Division. Edgestones were reset, brick sidewalks and flagging crosswalks laid by P. Brennan & Co. Former pavement, granite blocks on gravel bed.

State street, Washington street to Commercial street, including tracks of the West End Street Railway Company, was paved with standard granite blocks on a 6-inch American cement concrete base with pitch and pebble joints. The old pavement was removed and roadway excavated by the Paving Division; concrete base laid by the Metropolitan Construction Company. Paving was laid, edgestones reset, brick sidewalks and flagging crosswalks laid by H. Gore & Co. Former pavement was old granite blocks on gravel bed. One new catch-basin was built and five square granite catch-basin frames were removed and cast-iron D frames substituted. Most of the old brick sidewalks were replaced by granolithic, laid by Simpson Bros. Corporation. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

Tremont street, Columbus avenue to Ruggles street, including tracks of the West End Street Railway Company, was paved with large granite blocks on a gravel bed. The old pavement was removed and roadway excavated by the Paving Division. Roadway was paved, edgestones reset, brick sidewalks and flagging crosswalks relaid by Jones & Meehan. The northerly roadway, between Columbus avenue and Prentiss street, was repaired in 1896. The West End Street Railway Company, by agreement, paid for the portion within its tracks. Former pavement was old granite blocks on a gravel bed. Two new catch-basins were built.

Tufts, Vine, Moulton and Corey streets, around St. Catherine's Catholic Church, were paved with 2 inches of Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder, on a 6-inch American cement concrete base, by the Barber Asphalt Paving Company. The old pavement was removed and roadway excavated by the Paving Division. Edgestones were reset, brick sidewalks and flagging crosswalks relaid by P. Brennan & Co. Former pavement was macadam with block gutters. One new catch-basin was built, one square granite catch-basin frame was removed and a cast-iron D frame substituted.

Unity street, Charter street to Tileston street, was paved with 2 inches Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder, on a 6-inch American cement concrete base, by

the Barber Asphalt Paving Company. The old pavement was removed and roadway excavated by the Paving Division. Edgestones were reset, brick sidewalks and flagging crosswalks were relaid by Charles L. Ward. Former pavement was cobble-stones on gravel bed. Two square granite catch-basin frames were removed and cast-iron D frames substituted.

Washington street, Kneeland street to Dover street, including tracks of West End Street Railway Company, was paved with standard granite blocks on a 6-inch American cement concrete base, with pitch and pebble joints. The old pavement was removed and roadway excavated by the Paving Division. Between Kneeland street and B. and A. R.R. bridge concrete base and paving were laid, edgestones reset, brick sidewalks and flagging crosswalks laid by William Higgins. Between Boston and Albany Railroad bridge and Dover street, similar work was done by Jones & Meehan. Former pavement was granite blocks on gravel bed. Five new catch-basins were built, seven square granite catch-basin frames were removed and cast-iron D frames substituted. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

Washington street, Dover street to Waltham street, including tracks of the West End Street Railway Company, was paved with standard granite blocks, partly on concrete base and partly on gravel bed, all with pitch and pebble joints. The old pavement was removed and roadway excavated by the Paving Division. Concrete base and paving were laid, edgestones reset, brick sidewalks and flagging crosswalks relaid by Jones & Meehan. Former pavement was granite blocks on gravel bed. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

Waterford street, Washington street to Shawmut avenue, was paved with 2½ inches Seyssel natural rock asphalt on a 6-inch Portland cement concrete base by Jones & Meehan. The old pavement was barred out and loaded, roadway excavated and loaded, edgestones reset, brick sidewalks and flagging crosswalks relaid by Jones & Meehan. The Street Department furnished teams for carting away old blocks and surplus excavation. Former pavement was granite blocks on gravel bed.

West Broadway, New England Railroad bridge to E street, including tracks of the West End Street Railway Company, was paved with large granite blocks on gravel bed. The old pavement was removed and roadway excavated by the Paving Division. A strip of Sicilian rock asphalt, 4 feet wide, was laid in either gutter on concrete base, for the purpose of providing a bicycle way. Roadway paving and asphalt was laid, edgestones reset, brick sidewalks and flagging crosswalks relaid by H. Gore & Co. Former pavement was granite blocks on gravel bed. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

West Broadway, 113 feet west of F street to 308 feet east of F street, was paved with 2½ inches of Sicilian rock asphalt on a

6-inch Portland cement concrete base by the Boston Asphalt Company. Granite block paving on gravel bed, with pitch joints, was laid in tracks of the West End Street Railway Company, and 18 inches outside, by H. Gore & Co. The old pavement was barred out and loaded, roadway excavated and loaded, edgestones reset, brick sidewalks and flagging crosswalks were relaid by H. Gore & Co. Former pavement was granite blocks on gravel bed. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

Wiget street, Salem street to North Margin street, was paved with 2 inches Trinidad lake asphalt, with $1\frac{1}{2}$ inches bituminous concrete binder, on a 6-inch American cement concrete base, by the Barber Asphalt Paving Company. The old pavement was removed, roadway excavated, edgestones reset, brick sidewalks and flagging crosswalks relaid by the Paving Division. Former pavement was granite blocks 1 foot square. One square granite catch-basin frame was removed and a cast-iron D frame substituted.

Winthrop square, Boston proper, and the intersection of Devonshire and Franklin streets, including tracks of West End Street Railway Company, were paved with Philadelphia, special cut, granite blocks, on a 6-inch American cement concrete base. The old pavement was barred out and loaded, roadway excavated and loaded, concrete base laid by the Metropolitan Construction Company. The Street Department furnished teams for carting away old paving blocks and surplus excavation. Granite blocks and flagging crosswalks were laid by H. Gore & Co. The West End Street Railway Company, by agreement, paid for the portion within its tracks.

NEW STREETS.

The following streets were constructed under chapter 323 of the Acts of the Legislature of Massachusetts of 1891, and Acts in amendment thereof or in addition thereto :

Athelwold street, School street to Kilton street, is about 1,028 feet long. The contract for constructing the surface of this street was awarded to Collins & Ham. Work under this contract was begun July 19, 1897, and completed September 18, 1897, at a total cost of \$2,972.63. It is a 6-inch macadam road with crushed stone sidewalks. Crushed stone, gutter blocks, and straight edgestones were furnished by the city and hauled to the site of the work by the contractor. Circular edgestone and flagging for crosswalks were furnished by the contractor.

Bernard street, Harvard street to Talbot avenue, is about 1,454 feet long. The contract for constructing the surface of this street was awarded to John A. Whittemore's Sons. Work under this contract has not yet begun.

Bloomfield street, Geneva avenue to Greenbrier street, is about 1,561 feet long. The contract for constructing the surface of this street was awarded to Collins & Ham. Work under this

contract was begun September 8, 1897, and completed October 26, 1897, at a cost of \$1,756.95. It is a 6-inch macadam road, with crushed stone sidewalks. Crushed stone and gutter blocks were furnished by the city and hauled to the site of the work by the contractor. Existing edgestones were reset and flagging for crosswalks were furnished and laid by the contractor.

Boylston street. (*See* Street Department Report for 1896, page 467.) Boylston road to Brookline avenue is about 2,070 feet long. A contract for constructing the surface of this street was awarded to Neil McBride. Work was begun October 20, 1896, and completed June 18, 1897, at a cost of \$12,846.47. This street has a 6-inch macadam roadway, with gravel sidewalks. Crushed stone and edgestones were furnished by the city, and hauled to the site of the work by the contractor. Gutter blocks were furnished and delivered on the street by the city. Flagging for crosswalks was furnished by the contractor.

Chamberlain street, Harvard street to Algonquin street, is about 475 feet long. A contract for constructing the surface of this street was awarded to Collins & Ham. Work was begun August 2, 1897, and completed October 2, 1897, at a cost of \$1,397.29. This street has a 6-inch macadam roadway, with crushed stone sidewalks. Crushed stone, gutter blocks and edgestones were furnished by the city, and hauled to the site of the work by the contractors. Flagging for crosswalks was furnished by the contractors.

Ellet street, Adams street to Dorchester avenue, is about 444 feet long. A contract for constructing the surface of this street was awarded to H. Gore & Co. Work was begun July 31, 1897, and completed September 7, 1897, at a cost of \$1,139.21. This street has a 6-inch macadam roadway, with crushed stone sidewalks. Crushed stone, gutter blocks and edgestones were furnished by the city, and hauled to the site of the work by the contractors. Flagging for crosswalks was furnished by the contractors.

Fairmount street, Washington street to Morton street, is about 2,672 feet long. A contract for constructing the surface of this street was awarded to James McGovern. Work was begun November 16, 1897, but, with the exception of a small amount of filling and grading, nothing has been done.

Fullerton street, Brookline avenue to Fairhaven street, is about 467 feet long. A contract for constructing the surface of this street was awarded to Philip Doherty. Work was begun July 28, 1897, and completed September 25, 1897, at a cost of \$2,333.74. This street has a 6-inch macadam roadway, with crushed stone sidewalks. Crushed stone, straight edgestones and gutter blocks were furnished by the city, and hauled to the site of the work by the contractor. Circular edgestones and flagging for crosswalks were furnished by the contractor.

Gaylord street, Washington street to Chamberlain street, is about 451 feet long. A contract for constructing the surface of this street was awarded to Doherty & Connors. Work was

begun July 31, 1897, and completed September 7, 1897, at a cost of \$942.01. This street has a 6-inch macadam roadway, with crushed stone sidewalks. Crushed stone, edgestones and gutter blocks were furnished by the city, and hauled to the site of the work by the contractors. Flagging for crosswalks was furnished by the contractors.

Geneva avenue, Westville street to Dorchester avenue, is about 2,137 feet long. A contract for constructing the surface of this street was awarded to Finneran & O'Hearn. Work was begun November 13, 1896, and completed August 9, 1897, at a cost of \$6,596.18. This street has a 6-inch macadam roadway, with gravel sidewalks. Crushed stone and edgestones were furnished by the city, and hauled to the site of the work by the contractors. Gutter blocks were furnished and delivered on the street by the city. Flagging for crosswalks was furnished by the contractors.

Greenbrier street, Bloomfield street to Park street, is about 842 feet long. A contract for constructing the surface of this street was awarded to H. Gore & Co. Work was begun September 14, 1897, and completed November 19, 1897, at a cost of \$2,181.60. This street has a 6-inch macadam roadway, with crushed stone sidewalks. Crushed stone, gutter blocks and edgestones were furnished by the city, and hauled to the site of the work by the contractors. Flagging for crosswalks was furnished by the contractors.

Ipswich street, from Boylston road to Boylston street, is about 2,366 feet long. The Boston and Albany Railroad Company, as provided in its contract for filling Queensberry street, deposited filling in said Ipswich street, amounting to 35,380 cubic yards, at 51 cents per yard, equal to \$18,043.80. The contract for constructing the surface of this street has not been let.

Lauriat avenue, Blue Hill avenue to Tucker street, is about 3,160 feet long. A contract for constructing this street was awarded to Doherty & Connors. Work was begun October 5, 1896, and completed June 1, 1897, at a cost of \$9,797.62. This street has a 6-inch macadam roadway, with gravel sidewalks. Crushed stone, gutter blocks and edgestones were furnished by the city, and hauled to the site of the work by the contractors. Flagging for crosswalks was furnished by the contractors.

Norway street, Massachusetts avenue to Parker street, is about 720 feet long. A contract for constructing the surface of this street was awarded to Doherty & Connors. Work was begun August 25, 1897, and completed October 16, 1897, at a cost of \$3,327.05. This street has a 6-inch macadam roadway, with crushed stone sidewalks. Crushed stone, gutter blocks and straight edgestones were furnished by the city, and hauled to the site of the work by the contractors. Circular edgestones and flagging for crosswalks were furnished by the contractors.

Peterborough street, Audubon road to Audubon road, is about 1,833 feet long. A contract for filling this street to

sub-grade was made with Boston and Albany Railroad Company on October 30, 1896, at the rate of 51 cents per cubic yard measured in the cut. Work was begun under this contract December 2, 1896, and completed April 22, 1897. Total amount of filling deposited was 57,073 cubic yards, at 51 cents per yard, equal to \$29,107.23. The contract for constructing the surface of this street has not been let.

Queensberry street, Audubon road to Audubon road, is about 1,738 feet long. A contract for filling this street to sub-grade was made with the Boston and Albany Railroad Company, on September 7, 1897, at the rate of 51 cents per cubic yard measured in the cut. Work was begun under this contract September 23, 1897, and completed January 28, 1898. Total amount of filling 58,222 cubic yards; total cost \$29,693.22. The contract for constructing the surface of this street has not been let.

Ruggles street, Parker street to Back Bay Fens, is about 945 feet long. A contract for constructing the surface of this street was awarded to Doherty & Connors. Work was begun December 2, 1897, and suspended January 6, 1898.

Tonawanda street, Geneva avenue to Greenbrier street, is about 1,700 feet long. A contract for constructing the surface of this street was awarded to Philip Doherty. Work was begun October 11, 1897, and suspended January 6, 1898.

Turner street, Haviland street to Astor street, is about 732 feet long. A contract for constructing the surface of this street was awarded to Doherty & Connors. Work was begun August 25, 1897, and completed October 16, 1897, at a cost of \$3,714.23. This street has a 6-inch macadam roadway with brick sidewalks. Crushed stone, gutter blocks and straight edgestones were furnished by the city and hauled to the site of the work by the contractors. Bricks for sidewalks were furnished and delivered on the street by the city. Circular edgestones and flagging for crosswalks were furnished by the contractors.

Vancouver street, Huntington avenue to Ruggles street, is about 254 feet long. A contract for constructing the surface of this street was awarded to Doherty & Connors. Work was begun December 2, 1897, and suspended January 6, 1898.

Wolcott street, Columbia road to Erie street, is about 690 feet long. A contract for constructing the surface of this street was awarded to Collins & Ham. Work was begun July 30, 1897, and completed October 16, 1897, at a cost of \$1,477.11. This street has a 6-inch macadam roadway with crushed stone sidewalks. Crushed stone, gutter blocks and edgestones were furnished by the city and hauled to the site of the work by the contractors. Flagging for crosswalks was furnished by the contractors.

GRADING STREET RAILWAY TRACKS.

The grades for tracks in the following streets have been determined. On streets marked * the surveys were made and levels taken by the companies:

(*West End Street Railway.*)

Adams street, from Park street to Parkman street.

Beacon street, from Commonwealth avenue to St. Mary's street.

Boylston street, from Tremont street to Washington street.

* **Cambridge street, Brighton**, from Saunders street to near Dustin street.

Centre street, Roxbury, from Wyman street to Parker street.

Centre street, Roxbury, from Day street to Wyman street.

Charles street, from Cambridge street to Leverett street.

Chelsea street, from City square to Adams street.

Church street, from Boylston street to Providence street.

Congress street, from State street across Water street.

Dudley street, from Guild row to Eliot square.

Dudley street, from Brook avenue to Upham's corner.

East Broadway, from I street to K street.

Franklin street, at Devonshire street.

K street, from East Broadway to East Fourth street.

Main street, Charlestown, from Miller street across Mead street.

Massachusetts avenue, from Huntington avenue to Columbus avenue.

Pleasant street, between Tremont street and Shawmut avenue.

Providence street, from Columbus avenue to Church street.

Saratoga street, from Chelsea street to Winthrop Junction.

Shawmut avenue, at Pleasant street.

Staniford street, from Green street to Merrimac street.

State street, from Devonshire to Congress street.

Temple place, at Tremont street.

Tremont street, from Boylston street to Warrenton street.

Tremont street, at Pleasant street.

Tremont street, from Vernon street to Cabot street.

Tremont street, at Roxbury crossing.

Washington street, from Hollis street to Warrenton street.

Washington street, from Boston and Albany Railroad bridge to Waltham street.

* **Washington street**, from Guild street to Atherton street.

West Broadway, from New England Railroad bridge to 450 feet east of F street.

(*Lynn and Boston Railroad Company.*)

Bennington street, from Saratoga street to Walley street.

Walley street, from Bennington street to Washburn avenue.

(*West Roxbury and Roslindale Street Railway Company.*)

* **Grove street, West Roxbury**, Washington street to Dedham line.

Total length of single track grades, 15.6 miles.

Surveys and plans were made for work upon the following streets and grades and lines given. The work of construction was supervised by the Street Department:

Abbotsford street, Crawford street to Harold street, was surfaced with macadam by the Paving Division; granite block gutters, edgestones and flagging crosswalks were laid by John McCourt. Park edgestones were set, enclosing the triangular space between the lines of Abbotsford, Crawford and Harold streets, by J. McCourt. The area between park curb was loamed and grassed. Formerly not built.

Adams street, Park street to Parkman street, including tracks of West End Street Railway Company, was widened and paved with large granite blocks on gravel base, excepting the westerly roadway between Gibson and Park streets. The necessary excavating was done by the Paving Division. Paving blocks were laid, edgestones set and flagging crosswalks laid by James Dolan. Former surface was macadam.

Audubon circle, southerly side, was surfaced with Telford macadam by the Paving Division. Granite block gutters were laid and edgestones set by A. Ford & Son. Formerly not built.

Beacon street, Tremont to Somerset street, was paved with granite blocks on a gravel bed, with pitch joints. The old paving blocks were barred out, removed and cleaned, paving bed prepared and blocks relaid by H. Gore & Co. This part of the street was paved with large granite blocks on gravel bed, with pitch joints, in 1893, but was in very bad condition, owing to the construction of the Tremont Building and to the fact that the street had to be dug up several times by corporations for the purpose of laying pipes, etc.

Beacon street, Commonwealth avenue to St. Mary's street, was resurfaced with macadam by the Paving Division. West End Street Railway tracks were reset to grade. The necessary excavation was made by the Paving Division. Edgestones were reset, gutters and flagging crosswalks relaid by William Higgins. Former surface was macadam.

Beacon street, circle (northerly side), at Chestnut Hill avenue, was graded by the Paving Division. Edgestones were set, block gutters and flagging crosswalks laid by G. H. Wentworth & Co.

Belvidere street, Falmonth street towards Boston and Albany Railroad yard. A small amount of work was done, setting edgestones, paving gutters, laying flagging crosswalks and brick sidewalks, by T. M. Gill.

Boylston street (southerly side), Tremont street to Washington street, was repaved with granite blocks on gravel base, with gravel joints, by J. B. O'Rourke.

Boylston street (southerly side), Tremont street to Park square, was repaved with granite blocks on gravel base, with gravel joints, by T. M. Gill.

Centre street (Roxbury), Parker street to Day street, was resurfaced with macadam by the Paving Division. Edgestones were set, gutters and flagging crosswalks laid by James Dolan. Excavating was done by the Paving Division. Former surface was macadam.

Centre street (West Roxbury), New York, New Haven and Hartford Railroad bridge to Corey street, was resurfaced with macadam by the Paving Division. Edgestones were set, gutters paved and crosswalks laid by James Dolan. The necessary excavating was done by the Paving Division. Former surface was macadam.

Commonwealth avenue (southerly roadway), Allston street, westerly. Granite block gutters were laid by George H. Wentworth & Co.

Commonwealth avenue, between Chestnut Hill avenue and Warren street. Granite block gutters were laid by George H. Wentworth & Co.

Cove street, Kneeland street to Essex street, was widened to 100 feet, and a temporary roadway about forty feet wide was paved with granite blocks on a gravel bed. The blocks in the old street were barred out, the bed was prepared, and necessary excavation done by the Paving Division. Paving was laid, edgestones set, brick sidewalks and flagging crosswalks relaid by T. M. Gill.

Culvert street, Tremont street to Ruggles street, was paved with granite blocks on gravel bed. Paving was laid, edgestones set, brick sidewalks and flagging crosswalks laid by Barnes & Ruffin and A. Ford & Son.

Cunard street, Tremont street to Columbus avenue. Granite block gutters were laid, edgestones set and brick sidewalks laid by Barnes & Ruffin.

Gold street, B street to New England Railroad bridge. Edgestones were set, granite block gutters and brick sidewalks were laid by Wm. H. Glenn.

Haverhill street, north of Causeway street, was repaved with old granite blocks on a gravel bed by D. J. Kiley. The old pavement of cobble stones was removed and bed prepared by the Paving Division.

Lafayette avenue, Endicott street to Prince street, was paved with old granite blocks on a gravel bed by McColgan & Bradley. The old cobble-stone pavement was removed and roadway excavated by the Paving Division. Edgestones were reset, brick sidewalks and flagging crosswalks were relaid by McColgan & Bradley.

Longwood avenue, Huntington avenue to Brookline avenue, was resurfaced with macadam by the Paving Division. Edgestones were set, granite block and cobble-stone gutters and brick sidewalks laid by William Higgins.

Mason street, Tremont street to line of asphalt pavement, was repaved with old blocks on gravel base, with gravel joints, by H. Gore & Co.

Mason street, West street to engine-house, was repaved with large granite blocks on gravel base with pitch and pebble joints, by T. M. Gill.

Massachusetts avenue, Columbus avenue to Huntington avenue, was resurfaced by the Paving Division. Edgestones were set, granite block gutters, flagging crosswalks and brick sidewalks were relaid by T. M. Gill.

Providence street, Park street to beyond Church street, was repaved with old granite blocks on gravel base with gravel joints by T. M. Gill. Edgestones were reset, flagging crosswalks and brick sidewalks were relaid by T. M. Gill.

Riverside street, Columbus avenue to Tremont street. Edgestones were set, gutters paved, brick sidewalks and flagging crosswalks laid by A. Ford & Son and Barnes & Ruffin.

Ruggles street, Tremont street to New York, New Haven and Hartford Railroad location, was paved with granite blocks on gravel base with gravel joints by A. Ford & Son. Edgestones were reset, brick sidewalks and flagging crosswalks laid by A. Ford & Son.

Saratoga street, Wordsworth street to Winthrop Junction, was filled to established grade by P. J. Attridge.

Sarsfield street, Tremont street to Grinnell street. Edgestones were reset, gutters paved, brick sidewalks and flagging crosswalks laid by Barnes & Ruffin.

Staniford street, Green street to Merrimac street, was paved with granite blocks on gravel base with gravel joints by D. J. Kiley & Co. Edgestones were reset, brick sidewalks and flagging crosswalks relaid by D. J. Kiley & Co.

Station street, Columbus avenue to Parker street, was paved with granite blocks on gravel base with gravel joints; edgestones were reset, brick sidewalks and flagging crosswalks were laid by Barnes & Ruffin.

Summer street (widening), Federal street to Atlantic avenue, was paved temporarily with old granite blocks on gravel base with gravel joints; edgestones were set and flagging crosswalks laid by T. M. Gill.

Terry street, Columbus avenue to Tremont street, gutters were paved by A. Ford & Son.

Tremont street, Culvert street to Sarsfield street, was paved with large granite blocks on gravel base with gravel joints. Edgestones were reset, flagging crosswalks and brick sidewalks laid by Barnes & Ruffin.

Tufts, Vine, Moulton and Corey streets, around St. Catherine's Catholic Church. Edgestones were reset, flagging crosswalks and brick sidewalks relaid by P. Brennan & Co. Considerable paving was also done to meet the grade of asphalt pavement.

Unity street, Charter street to Tileston street. Edgestones were reset, brick sidewalks and flagging crosswalks relaid by C. L. Ward.

Walpole street, Columbus avenue to Tremont street. Edgestones were set, gutters paved, brick sidewalks and flagging crosswalks laid by A. Ford & Son.

Water street, Washington street to Devonshire street, was paved with large granite blocks on gravel base with pitch joints by H. Gore & Co.

Weston street, Tremont street to Hammet street. Gutters were paved, edgestones set, flagging crosswalks and brick sidewalks laid by A. Ford & Son and Barnes & Ruffin.

Western avenue, Market street to Everett street. Gutters were paved, edgestones set, brick sidewalks and crosswalks laid by James Grant, D. J. Kiley and G. H. Wentworth & Co.

MISCELLANEOUS WORK.

Abbottsford street, Harold street and Crawford street. Plan and specification for park curbing.

Plan case, plan and specifications.

Freeport street, plan of retaining wall.

Geneva avenue, plan and specification for cap-stones and fences on culverts.

Lauriat avenue, plan and specification for cap-stones and fences on culverts.

Table showing lengths and areas of pavements on official streets to February 1, 1898.

Tremlett street (Dorchester), plan and specification for park curbing.

Blue Hill avenue, plan and specification for retaining wall along Franklin park.

Surveys, plans and estimates for improving and paving the following streets have been made :

Albion street, Castle street to Compton street.

Carlton street, West Newton street to Berwick park.

Centre street (Roxbury), Day street to Wyman street.

Chair alley, Cross street to Richmond street.

Chelsea street, City square to Adams street.

Church street, Boylston street to Providence street.

Congress street, Exchange place across Water street.

Endicott street, Causeway street to Hanover street.

Fayette street, Ferdinand street to Church street.

Howard street, Bulfinch street to Tremont street.

I street, East Broadway to East Fourth street.

K street, East Broadway to East Fourth street.

La Grange street, Tremont street to Washington street.

Private way, Tremont street to Avery street.

Tremont street, Boylston street to Warrenton street.

Tremont street, Weston street to Northfield street.

Warren street (Roxbury), Rockland street to Woodbine street.

West Broadway, E street to Dorchester street.

West Newton street, Columbus avenue to Shawmut avenue.

DUMPING WHARF FOR THE SANITARY DIVISION OF THE STREET
DEPARTMENT.

Plans and estimates were prepared for strengthening Fort Hill Wharf; the work was done by George H. Cavanagh. An estimate was made of the cost of converting a part of Snow's Arch Wharf into a dumping plant; the work was not done.

EAST BOSTON FERRIES.

North Ferry. At the request of the Superintendent of Streets a report was made on the condition of the piers of the North Ferry.

South Ferry, East Boston side. Estimates were made for repairing the southerly drop, which was run into by a ferry-boat August 31, and badly damaged. Plans and specifications were later made for replacing the drop with a new one, and the work was let to John M. Brooks for a contract price of \$5,433.50; the new drop was put in use December 31, 1897.

Plans and specifications were made for building a tank for the new drop; the work was done under contract by John M. Brooks for \$1,737.50.

Plans were made for rebuilding the foundation and the work was done by W. H. Ellis Company. The flooring of the landings was raised to grade 13.50 by the Ferry Division of the Street Department, the extreme raise being 14 inches.

Plans were made for a rearrangement of the landing and piers, using three drops in place of two.

HARVARD-STREET BRIDGE, OVER NEW ENGLAND RAILROAD.

Plans and specifications were made for building an 8-ft. sidewalk on this bridge; the work was done by the Street Department.

HYDE PARK-AYENUE BRIDGE, OVER STONY BROOK.

Plans were prepared for building this bridge, and the work was done by the Street Department.

IPSWICH STREET.

Plans and specifications were completed in November for building the retaining wall and two bridges required for this street. One of the bridges will support the Parkway on Charlesgate West, where it crosses the street, and the other bridge carries the street over the Fens water-way.

On November 29 a contract was made with Messrs. Holbrook, Cabot & Dailey for constructing all the masonry required for the walls and bridges. The work is now in progress, and will be finished early in the coming season.

MISCELLANEOUS.

Surveys have been made and plans are being prepared for building foundations for a bridge on Columbia road, over the Old Colony Division of the New York, New Haven and Hartford Railroad.

Surveys have also been made for determining the amount of excavation from the hills on Story and Fifth streets, near H street, South Boston; the earth is being used for filling on Columbia road, at the foot of Mercer street.

Yours respectfully,

WILLIAM JACKSON,
City Engineer.

APPENDIX I.

REPORT OF THE CHIEF SMOKE INSPECTOR.

28 COURT SQUARE, BOSTON, February 1, 1898.

BENJ. W. WELLS, Esq., *Superintendent of Streets*:

DEAR SIR: I herewith submit a report of the work performed under chapter 389, Acts of 1895, and section 119, chapter 175, Acts of 1897, relating to the Smoke Nuisance in this city.

Under the law of 1895, a chimney could emit "dark or thick gray" smoke for five minutes continuously, or twenty-five per cent. of a continuous period of twelve hours before it was declared a nuisance. There were times at rare intervals when a chimney would emit dark or thick gray smoke for five minutes continuously, but they were so rare that it was thought that the evidence with regard to them would not stand the strain of a trial; and unless the parties complained or felt disposed to make changes at some expense there was no remedy other than taking the case into court, and very little if anything could be done.

Section 119, chapter 175 of the Acts of 1897, provides that "the Building Commissioner may from time to time, after public notice and hearing, prescribe conditions on which any or all boilers may be maintained in buildings, and if any person interested objects to such conditions they shall be referred to a board of appeal, consisting of the Chairman of the Board of Health, Fire Commissioner and the Board of Appeal."

This gives the Building Commissioner the power to make any conditions that are at all fair with regard to the conduct of furnaces burning soft coal, as in some cases the emission of smoke for a much shorter period than the law allows is somewhat of a nuisance, owing to location, conditions, etc.

In order to take action under this law it is necessary to have a complaint from parties affected; when a complaint is received against an offending stack an observation is taken, and if the chimney is emitting smoke to the annoyance of the parties who complained, but not enough to violate the law, the attention of the owner or parties interested in the plant is called to the complaint and also to the law, and all complaints so far, some of

which required time owing to experiments, the department allowing considerable latitude in that direction, have been settled satisfactorily to all parties concerned without bringing the complaint before the Building Commissioner.

Several complaints were also received against house chimneys; these chimneys, while not under the jurisdiction of this office, were looked into, and in some cases the suggestions offered were carried out, affording considerable relief.

Section 99, chapter 3, Revised Ordinances, 1892, provides that "no person shall use bituminous coal for the purpose of generating steam in boilers in any building, unless the furnace in which said coal is burned is provided with some effectual device for consuming its own smoke."

It was found necessary, if any progress were to be made on the smoke question, to enforce the above ordinance on all new boilers, which has been done for the past three years. Early in August, 1897, the Music Hall Association made application to the Building Commissioner to place and maintain a boiler in Music Hall, and notice was sent them to the effect that the department would object to the granting of the permit unless they complied with the above ordinance. At the expiration of ten days, not having received any reply, a notice of objection was filed with the Building Commissioner, who forwarded the same to the Board of Appeal, who later gave a hearing, the Music Hall Association and the City of Boston being represented by counsel. The decision of the Board of Appeal was to the effect that no permit should be issued until the above parties had complied with the ordinance. This they have since done.

As nothing appeared in the application for boiler permits touching the matter of the use of bituminous coal, the Corporation Counsel, in the latter part of September, drew up a new form of application and permit, calling attention in the application to the fact that if bituminous coal was to be used, the furnace should be provided with a smoke-consuming device. The permit required the device when adopted to be satisfactory to this office; the necessity of this was shown in the fact, that since the enforcement of the ordinance relative to the adoption of smoke consumers, some persons, with a view of evading the law, equipped their boilers with cheap and ineffective devices, which, upon investigation, were found to be short lived and worthless.

There have been times during the past year when the emission of smoke from chimneys has been very noticeable, particularly the past few months. Plants that had previously never given any trouble were reported by the observers, and, upon investigation, were found to be using what is known as a low grade of bituminous coal, containing a large percentage of volatile matter, this coal being considered good for steaming qualities, but making very much smoke. To continue the use of this kind of fuel left the owners of plants liable to become amenable to the law, and when this fact was called to their attention, orders

were immediately given by them to stop the further use of this grade of coal.

The greater portion of this coal was later traced as coming from the coal pockets of the Boston & Maine Railroad at Charlestown, which were burned some time ago. This coal was sold by the underwriters to a syndicate, who in turn sold it to consumers as a high grade coal, at much less than the market price.

During the past two months a visit was made to some eighty-nine boiler plants, the owners of which having at the time the permit was obtained, agreed to burn anthracite coal. These plants are in the main used only during cold weather, and this investigation was made with a view of determining whether the above conditions were being carried out. Fourteen plants were found burning bituminous coal, three of which were equipped with smoke devices; the remainder were notified they were violating the conditions of their permit, all of whom have since complied with the requirements of the department.

COAL IMPORTATIONS.

The following table shows the number of tons and value of importations of Nova Scotia coal recorded at the port of Boston for the year ending January 31, 1898, the main portion of which is used outside the city limits :

MONTH.	Tons.	Value.
February	5,765	\$9,859
March	4,063	7,015
April	6,174	9,986
May	6,200	10,765
June	3,525	6,059
July	8,123	14,385
August	1,954	3,517
September	2,357	2,357
October	1,552	1,552
November	612	773
December	160	176
January, 1898	1,245	1,245
Total	41,730	\$67,689

BOILER APPLICATIONS.

During the past year 409 applications were received from the Building Department and disposed of as follows :

Tubular boilers, hot-water heaters, etc.	289
Signed to use hard coal	66
Adopted smoke devices	30
Screenings and soft coal mixed	12
Screenings and shavings mixed	1
Duplicates	6
Applications withdrawn	2
Engines	2
Dynamo	1
<hr/>	
Total	409

SPECIAL REPORTS.

The following special reports have been made from time to time :

February 4. Report, with observations, on the plant of the Massachusetts Institute of Technology, Boylston street.

February 12. Report, with observation, on plant of the Homeopathic Hospital, Albany street.

February 18. Report, with observations, on plant of Houghton & Dutton, Tremont street.

February 24. Report, with observations, on plant of the Thomas G. Plant Company, Bickford street, Ward 22.

March 6. Report on complaint against Vose & Sons, Washington, corner Waltham streets.

March 9. Report, with observations, on plant of Houghton & Dutton, Tremont street.

March 27. Report, with observations, on plant of the Blodgett estate, 256 Purchase street.

April 8. Report, with observations, on plant of the Massachusetts Fireproof Storage Warehouse Company, Huntington avenue, Parker and Bryant streets.

April 20. Report on complaint against Park Building, Park square, corner Boylston street.

April 23. Report on complaint against Charles M. Priest (restaurant), 102 Dartmouth street.

April 28. Report, with observation, on plant of Houghton & Dutton, Tremont street.

May 14. Report on complaint against plant of Church Green Electric Lighting Company, Sullivan place.

June 9. Report, with observation, on plant of Bowdoin square Hotel, Bowdoin square.

June 23. Report on complaint against plant of Church Green Electric Lighting Company, Sullivan place.

June 28. Report on complaint against plant of Minot estate, 9-13 Randolph street.

July 22. Report on complaint against Merello's bakery, 1260 Washington street.

August 17. Report on refusal of Trustees of Music Hall Association to comply with chapter 3, section 99, Revised Ordinances, 1892.

August 26. Report, with observations, on plant of Boston Hotel and Steamboat Laundry Company, 59 West Newton street.

October 2. Report on complaint against plant of George W. Young & Co. (saw-mill), Albany, corner Dedham street.

October 20. Report on communication from His Honor the Mayor, relative to the smoke nuisance from the plant of George W. Young & Co. (saw-mill), Albany, corner Dedham street.

November 11. Report on complaint against plant of Block Plant Electric Light Company, Province court.

November 27. Report, with observations, on plant of R. H. White & Co., Washington street.

December 13. Report, with observations, on plant of F. L. Ames estate, 77 Chauncey street.

December 22. Report on complaint against plant of Carter Building, Washington, corner Water street.

SUMMARY.

The following is a brief summary of the work for the year ending January 31, 1898:

Number of boiler permits received	.	.	.	.	409
Number agreeing to burn hard coal	.	.	.	.	355
Number of short observations taken	.	.	.	.	333
Number of observations lasting from three to nine hours,					40
Number of special reports	.	.	.	.	24

WEATHER REPORT.

Commencing January 1, 1897, there has been obtained from the Weather Bureau a weekly weather record of the temperature, humidity, character of the day, direction and miles per hour of the wind, and also the general precipitation, showing the nature of the same, when it began and ended, and the amount in inches, as shown by the following table:

Weather report for the week ending.....

	Temperature.			Relative Humidity.		Character of the Day.	Wind.	
	Max.	Min.	Mean	S A.M.	S P.M.		Direction.	Miles per Hour.
Sunday								
Monday								
Tuesday.....								
Wednesday..								
Thursday....								
Friday								
Saturday								

PRECIPITATION.

	Character.	S A.M.		Character.	S P.M.		Snowfall in.	Rainfall. in.
		Beginning.	End.		Beginning.	End.		
Sunday								
Monday.....								
Tuesday.....								
Wednesday..								
Thursday								
Friday... ..								
Saturday.....								

Respectfully submitted,

THOMAS F. KELLEY,
Chief Inspector.

APPENDIX J.

FORMER SUPERINTENDENTS AND DOCUMENT
NUMBERS OF ANNUAL REPORTS.**Bridge Department before 1891.***Previous to 1886, under charge of City Engineer.*

NAME.	Year.
Bartholomew M. Young	1886 to 1889
James H. Nugent	1889 to 1891

Bridge Department before 1891.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report	1886	1887	29
" "	1887	1888	26
" "	1888	1889	29
" "	1889	1890	22
" "	1890	1891	*

* Published in annual report, Executive Department, Part I., City Document No. 1, 1891.

Paving Department before 1891.

NAME.	Year.
Enoch Patterson, Superintendent Streets and Drains .	1827 to 1831
Zephaniah Sampson, " " " "	1831 to 1846
Thomas Hunting, Superintendent	1846 to 1853
Alfred T. Turner, "	1853 to 1864
Charles Harris, "	1864 to 1883
Nehemiah T. Merritt, "	1883
James J. Flynn, "	1883
Charles Harris, "	1884
Michael Meehan, "	1884 to 1886
John W. McDonald, "	1886 to 1889
J. Edwin Jones, "	1889 to 1891

Paving Department before 1891.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Quarterly report . . . . .	. . .	1851	6
“ “ . . . . .	. . .	1851	29
Annual report	1851	1852	2
“ “	1852	1853	6
“ “	1853	1854	6
“ “	1854	1855	5
“ “	1855	1856	3
“ “	1856	1857	3
“ “	1857	1858	3
“ “	1858	1859	5
“ “	1859	1860	6
“ “	1860	1861	5
“ “	1861	1862	4
“ “	1862	1863	3
“ “	1863	1864	3
“ “	1864	1865	7
“ “	1865	1866	3
“ “	1866	1867	6
“ “	1867	1868	9
“ “	1868	1869	14
“ “	1869	1870	13
“ “	1870	1871	12
“ “	1871	1872	16
“ “	1872	1873	21
“ “	1873	1874	25
“ “	1874	1875	27
“ “	1875	1876	30
“ “	1876	1877	38
“ “	1877	1878	29
“ “	1878	1879	24
“ “	1879	1880	24
“ “	1880	1881	48
“ “	1881	1882	51
“ “	1882	1883	47
“ “	1883	1884	46
“ “	1884	1885	97
“ “	1885	1886	30
“ “	1886	1887	16
“ “	1887	1888	23
“ “	1888	1889	30
“ “	1889	1890	19
“ “	1890	1891	*

* Published in annual report, Executive Department, Part II., City Document No. 1, 1891.

Sewer Department before 1891.

NAME.	Year.
Enoch Patterson, Superintendent	1827 to 1831
Zephaniah Sampson, "	1831 to 1837
Charles B. Wells, "	1837 to 1856
Simeon B. Smith, "	1856 to 1863
William H. Bradley, "	1863 to 1883
Horace A. Moses, "	1883 to 1885
Thomas J. Young, "	1885 to 1887
Seth Perkins, "	1887 to 1889
Charles Morton, "	1889 to 1891

Sewer Department before 1891.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. Doc.
Annual report	1859	1861	11
" "	1860	1861	12
" "	1861	1862	12
" "	1862	1863	13
" "	1863	1864	11
" "	1864	1865	5
" "	1865	1866	6
" "	1866	1867	8
" "	1867	1868	13
" "	1868	1869	11
" "	1869	1870	3
" "	1870	1871	11
" "	1871	1872	10
" "	1872	1873	13
" "	1873	1874	12
" "	1874	1875	17
" "	1875	1876	11
" "	1876	1877	13
" "	1877	1878	15
" "	1878	1879	11
" "	1879	1880	16
" "	1880	1881	19
" "	1881	1882	18
" "	1882	1883	16
" "	1883	1884 }	43
" "	1884	1885 }	
" "	1885	1886	58
" "	1886	1887	69
" "	1887	1888	81
" "	1888	1889	129
" "	1889	1890	14
" "	1890	1891	*

*Published in annual report, Executive Department, Part II., City Document No. 1, 1891.

Health Department before 1891.*Sanitary.*

NAME.	Year.
Ezra Forristall, Superintendent	1853 to 1854
Joseph W. Coburn, "	1854 to 1855
Ezra Forristall, "	1855 to 1869
George W. Forristall, "	1869 to 1890

Health Department before 1891.*Sanitary.*

NAME OF DOCUMENT.	Year.	Pub. Year.	No. of Doc.
Annual report	1853	1854	7
" "	1854	1855	6
" "	1855	1856	4
" "	1856	1857	4
" "	1857	1858	4
" "	1858	1859	4
" "	1859	1860	5
" "	1860	1861	6
" "	1861	1862	5
" "	1862	1863	5
" "	1863	1864	4
" "	1864	1865	4
" "	1865	1866	8
" "	1866	1867	7
" "	1867	1868	8
" "	1868	1869	12
" "	1869	1870	4
" "	1870	1871	10
" "	1871	1872	17
" "	1872	1873	40
Annual report from 1873 to 1884, inclusive; the Superintendent's report was embodied in the report of the Board of Health	1885	1886	45
Annual report	1886	1887	22
" "	1887	1888	16
" "	1888	1889	23
" "	1889	1890	21
" "	1890	1891	*

*Published in annual report, Executive Department, Part II., City Document No. 1, 1891.

Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal and Prison Point.)

NAME.	Year.
Frederick W. Lincoln, Commissioner for Boston, {	May 22, 1871, to
Ezra Parmenter, Commissioner for Cambridge . {	March, 1891.
William J. Marvin, Commissioner for Cambridge, {	June 14, 1871, to
	Jan. 31, 1883.
	March 28, 1883, to
	present time.

NOTE. — Harvard bridge added in 1892.

Commissioners of Cambridge Bridges before 1891.

(West Boston, Canal and Prison Point.)

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report	1871	1872	19
" "	1872	1873	12
" "	1873	1874	16
" "	1874	1875	23
" "	1875	1876	20
" "	1876	1877	12
" "	1877	1878	10
" "	1878	1879	8
" "	1879	1880	12
" "	1880	1881	8
" "	1881	1882	15
" "	1882	1883	15
" "	1883	1884	19
" "	1884	1885	8
" "	1885	1886	12
" "	1886	1887	19
" "	1887	1888	25
" "	1888	1889	22
" "	1889	1890	20
" "	1890	1891	*

* Published in annual report, Executive Department, Part I., City Document No. 1, 1891.

Ferry Department before 1895.

NAME.	Year.
Board of Ferry Directors	1870
William J. Burke, Superintendent	1891
Thomas Kellough, "	May 1, 1895.
	May 1, 1895.
	July 1, 1895.

Ferry Department before 1895.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report	1870	1871	41
" "	1871	1872	55
" "	1872	1873	81
" "	1873	1874	42
" "	1874	1875	65
" "	1875	1876	51
" "	1876	1877	53
" "	1877	1878	49
" "	1878	1879	60
" "	1879	1880	74
" "	1880	1881	77
" "	1881	1882	72
" "	1882	1883	93
" "	1883	1884	76
" "	1884	1885	72
" "	1885	1886	28
" "	1886	1887	12
" "	1887	1888	10
" "	1888	1889	3
" "	1889	1890	4
" "	1890	1891	*
" "	1891	1892	12
" "	1892	1893	11
" "	1893	1894	11
" "	1894	1895	11

*Published in annual report, Executive Department, Part I., City Document No. 1, 1891.

Street Department since 1891.

Superintendent.

Henry H. Carter, Member of American Society Civil Engineers.

Resigned December 8, 1894.

Charles R. Cutter, *Acting Superintendent from December 8, 1894, to January 14, 1895.*
Member of the Boston Society Civil Engineers.

Bertrand T. Wheeler, *Superintendent from January 14, 1895, to February 4, 1896.*
Member of the Boston Society Civil Engineers.

Benjamin W. Wells, *Superintendent from February 4, 1896, to the present time.*

BRIDGE DIVISION.—John A. McLaughlin, *Deputy Superintendent until June 1, 1895.*

BRIDGE DIVISION.—John P. Wise, *Deputy Superintendent from June 1, 1895, to February 14, 1896.*

BRIDGE DIVISION.—William H. Carberry, *Deputy Superintendent from February 14, 1896, to the present time.*

FERRY DIVISION.—Thomas Kellough, *Deputy Superintendent from July 1, 1895, to February 14, 1896.*

FERRY DIVISION.—William F. McClellan, *Deputy Superintendent from February 14, 1896, to the present time.*

PAVING DIVISION.—Charles R. Cutter, *Deputy Superintendent until January 24, 1895.*

- PAVING DIVISION.—Darius N. Payson, *Deputy Superintendent from January 24, 1895, to March 1, 1896.*
- PAVING DIVISION.—John L. Kelly, *Deputy Superintendent from March 1, 1896, to the present time.*
- SANITARY DIVISION.—George W. Forristall,¹ *Deputy Superintendent.*
- SANITARY DIVISION.—Philip A. Jackson, *Acting Deputy Superintendent from January 16, 1894, to February 1, 1895.*
- SANITARY DIVISION.—Charles A. Young, *Deputy Superintendent from February, 1895, to March 1, 1896.*
- SANITARY DIVISION.—Patrick O'Shea, *Deputy Superintendent from March 1, 1896, to the present time.*
- SEWER DIVISION.—Henry W. Sanborn, *Deputy Superintendent until July 10, 1896.*
Member Philadelphia Society Civil Engineers.
- SEWER DIVISION.—Charles R. Cutter, *Deputy Superintendent from July 10, 1896, to the present time.*
Member of the Boston Society of Civil Engineers.
- STREET CLEANING DIVISION.—Philip A. Jackson, *Deputy Superintendent until March 22, 1895.*
- STREET CLEANING DIVISION.—Benjamin M. Cram, *Deputy Superintendent from March 22, 1895, to March 1, 1896.*
- STREET CLEANING DIVISION.—Joshua Atwood, 3d, *Deputy Superintendent from March 1, 1896, to the present time.*
Member of the Boston Society of Civil Engineers.
- STREET WATERING DIVISION.—M. Edwin Libby, *Deputy Superintendent from March 6, 1895, to March 1, 1896.*
- STREET WATERING DIVISION.—Thomas J. Finneran, *Deputy Superintendent from March 1, 1896, to the present time.*
- BOSTON AND CAMBRIDGE BRIDGES.—Henry H. Carter, *ex officio, Commissioner for Boston, until December 8, 1894.*
Charles R. Cutter, *Acting, from December 8, 1894, to January 14, 1895.*
Bertrand T. Wheeler, *from January 14, 1895, to February 4, 1896.*
Benjamin W. Wells, *from February 14, 1896, to the present time.*
William J. Marvin, *Commissioner for Cambridge.*

¹ Died January 12, 1894.

Street Department.

NAME OF DOCUMENT.	For Year.	Pub. Year.	No. of Doc.
Annual report, Executive Dept. Part II...	1891	1892	36
" " " " " "	1892	1893	34
" " " " " "	1893	1894	34
" " " " " "	1894	1895	34
" " " " " "	1895	1896	29
" " " " " "	1896	1897	29
" " " " " "	1897	1898	34

